

FIG. 1

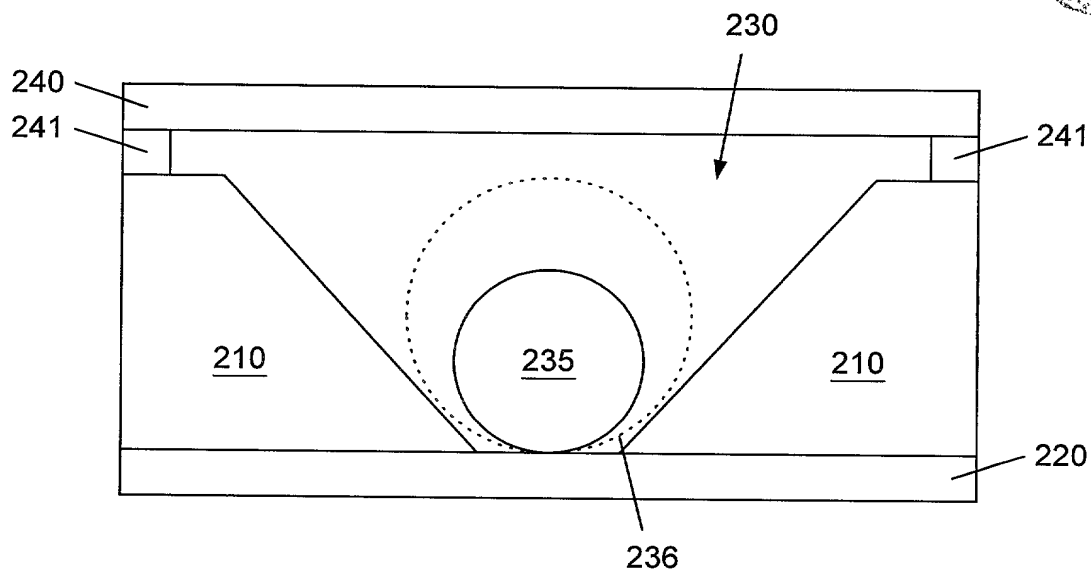
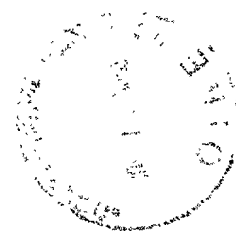


FIG. 2

2008120" 00022001

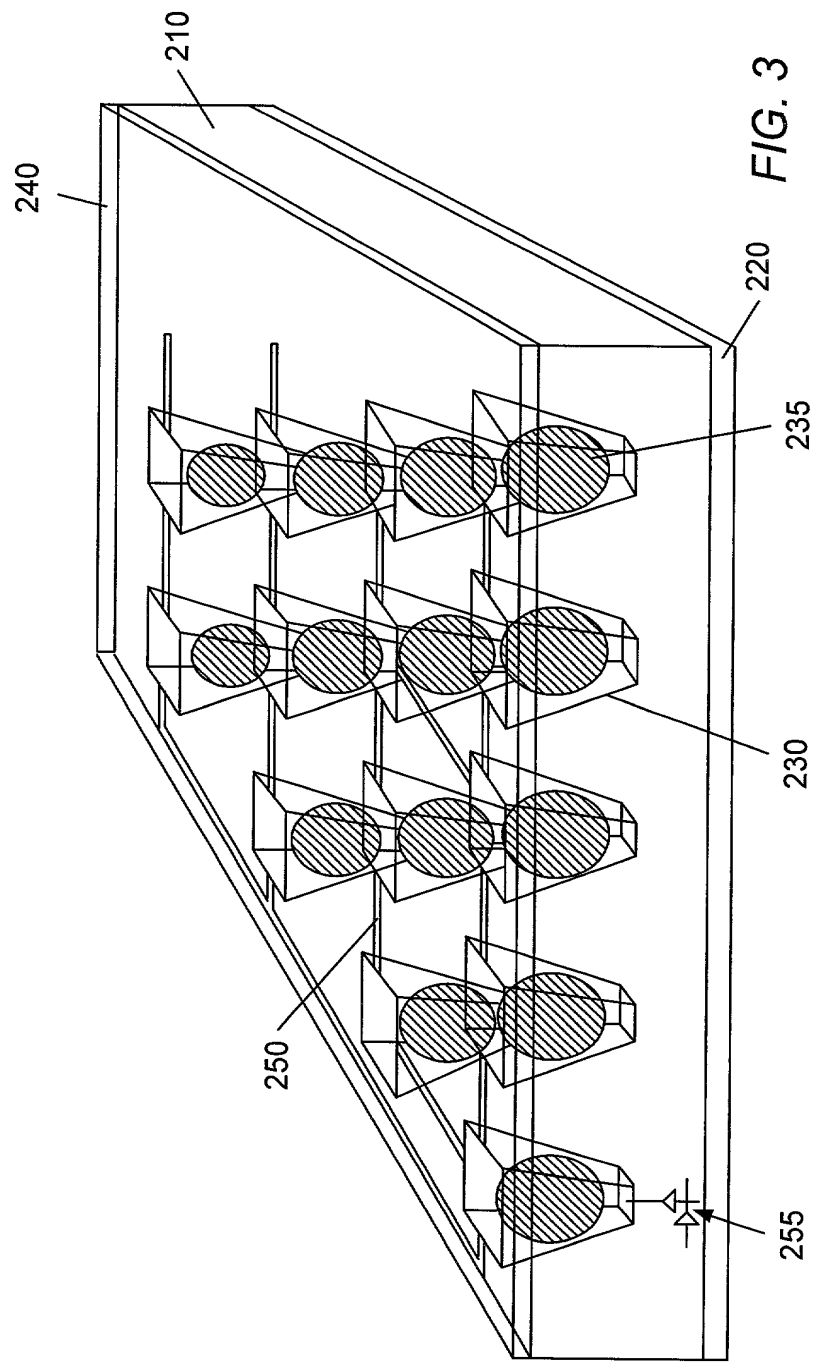
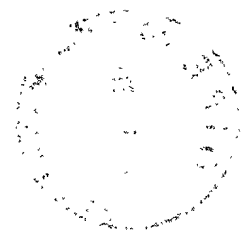


FIG. 3

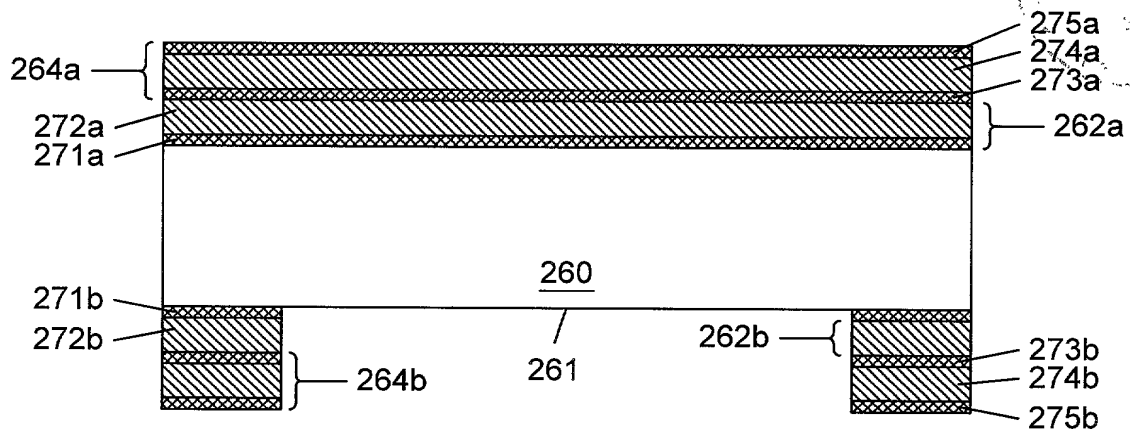


FIG. 4A

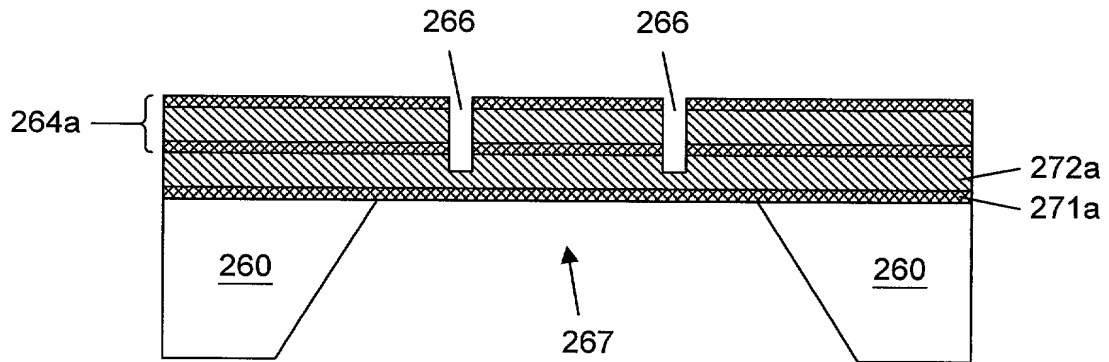


FIG. 4B

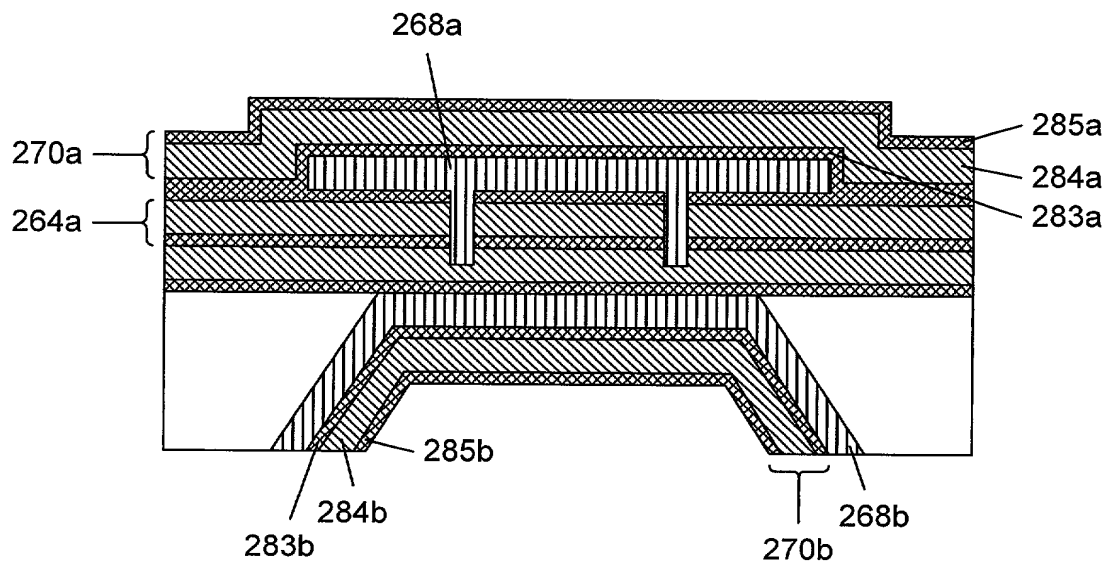


FIG. 4C

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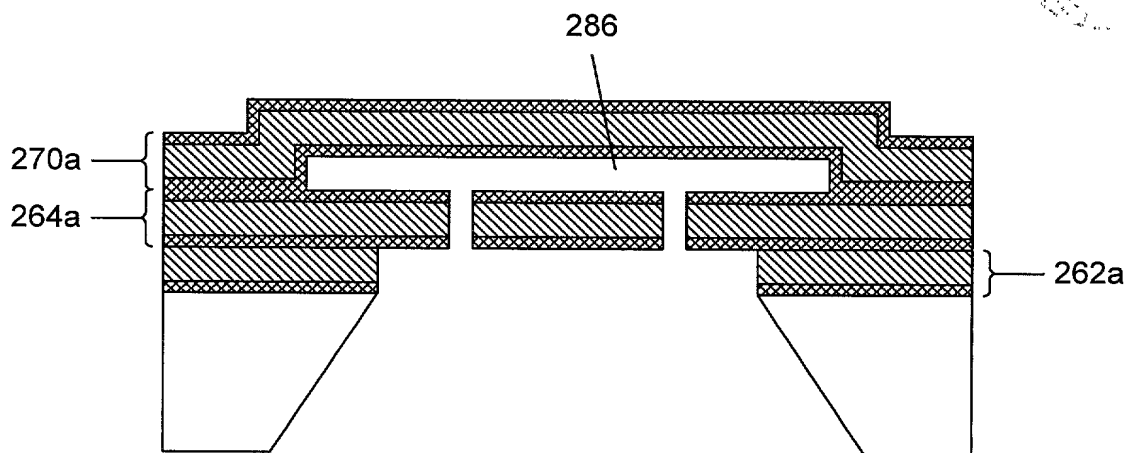


FIG. 4D

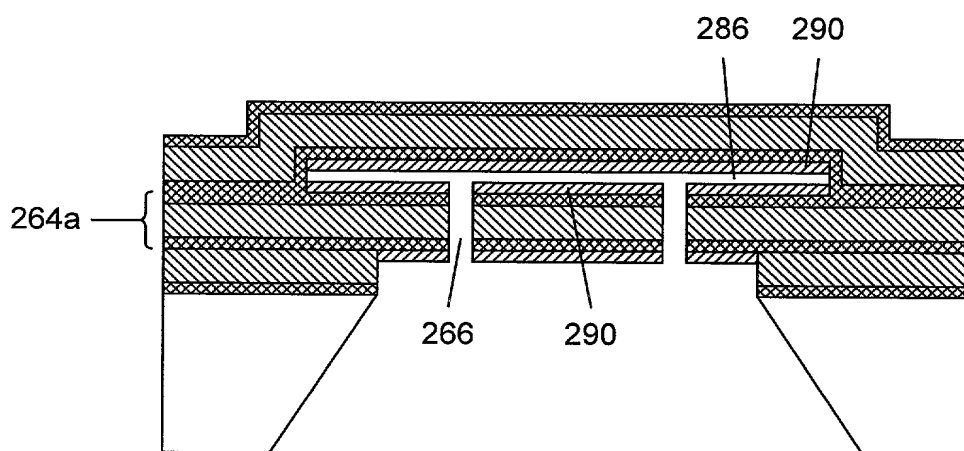


FIG. 4E

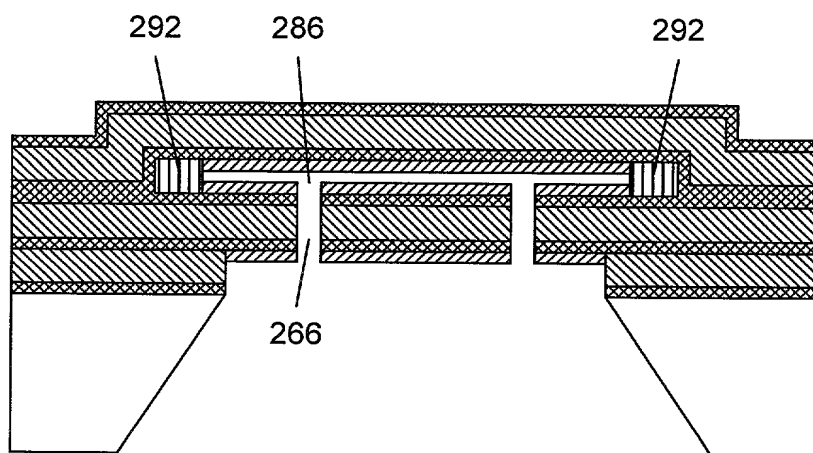
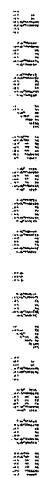
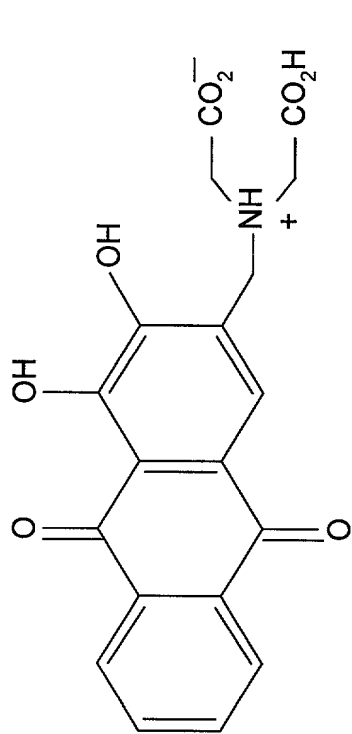


FIG. 4F

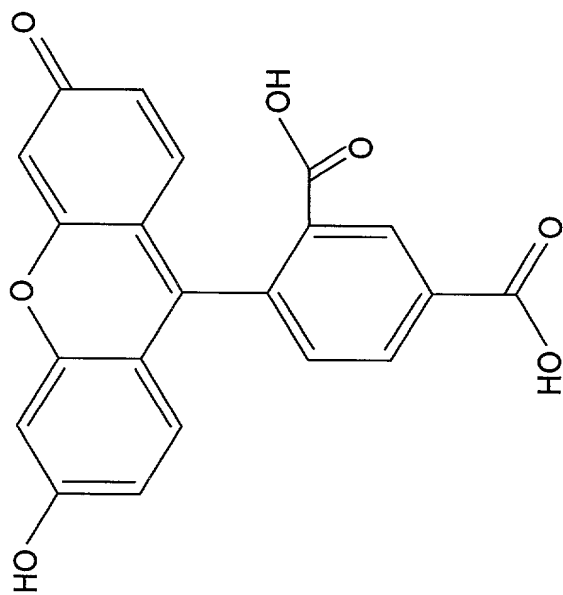
208720 0082200T



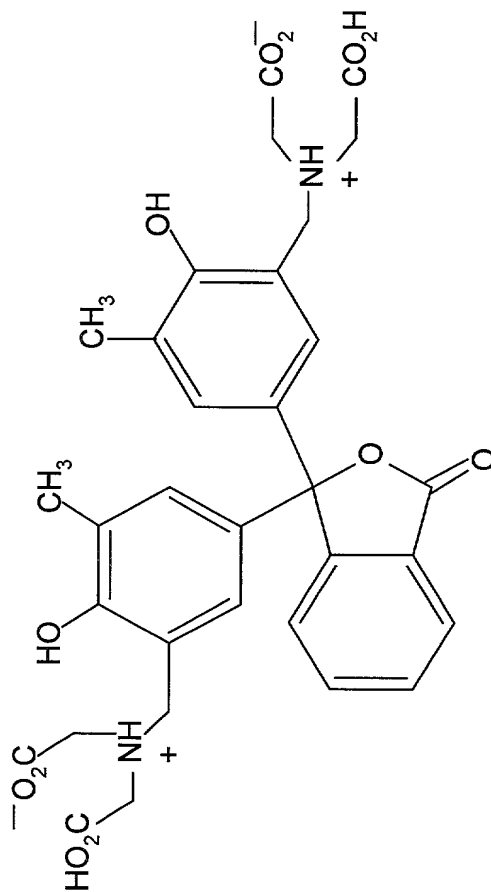
**FIG. 5**



alizarin complexone



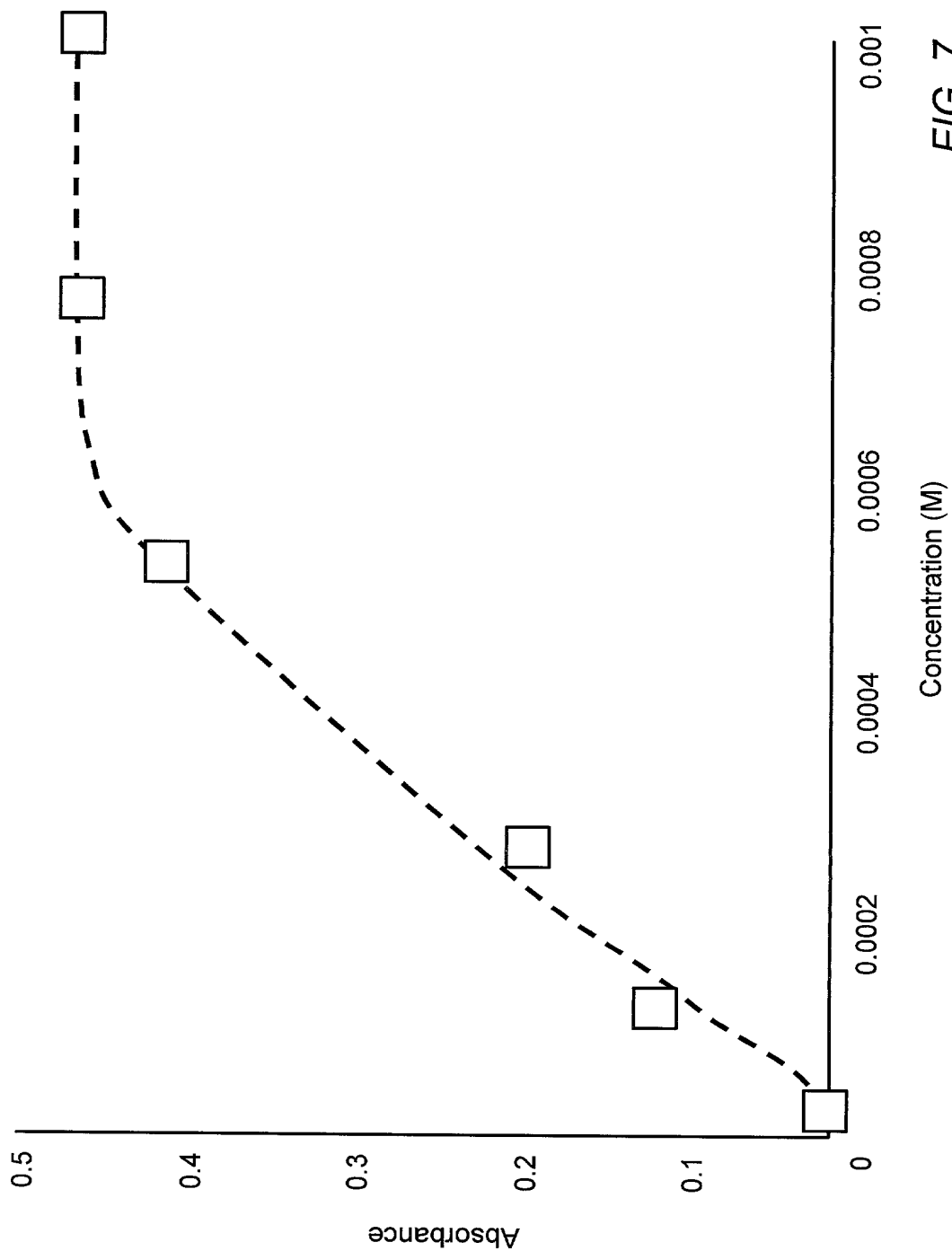
5-carboxy fluorescein



o-cresolphthalein complexone

FIG. 6





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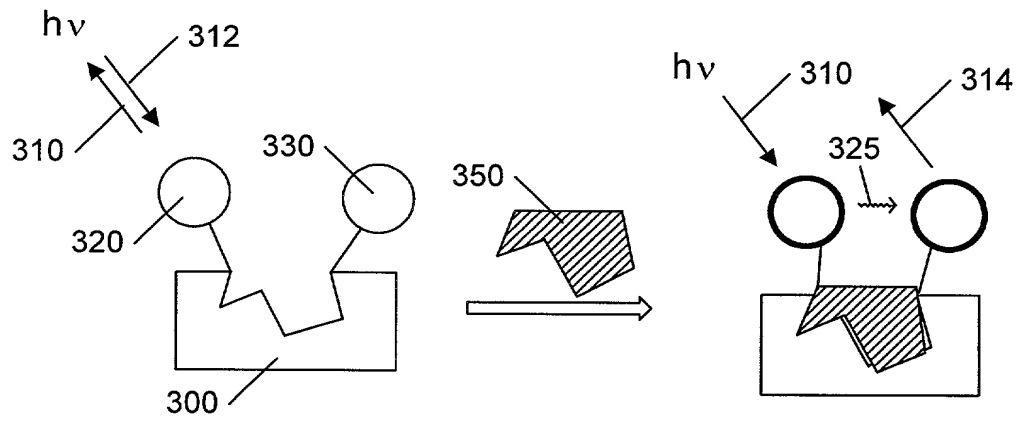
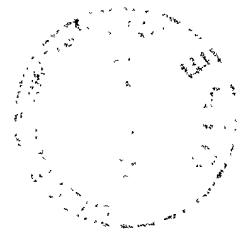


FIG. 8

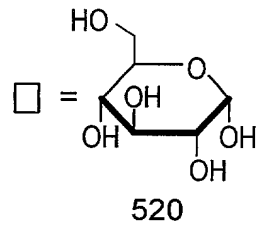
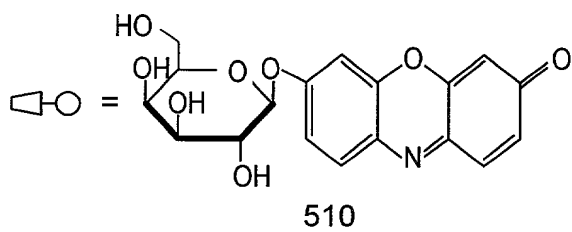
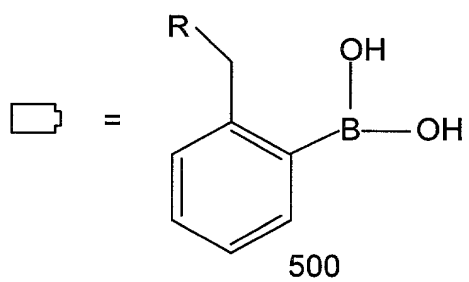
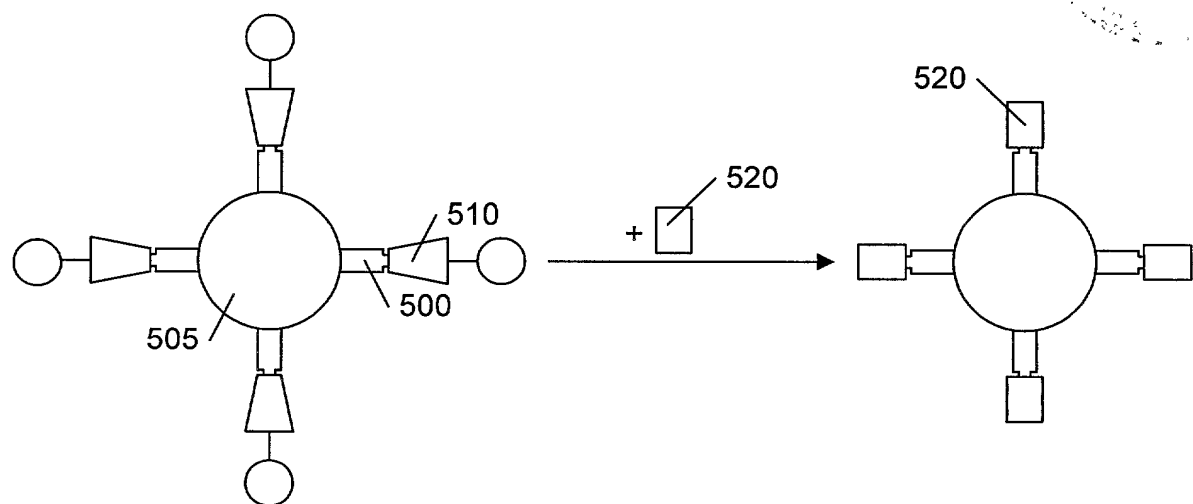
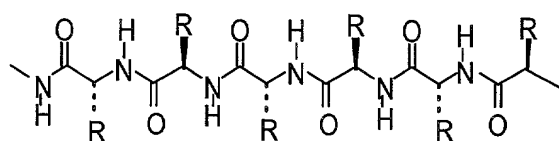
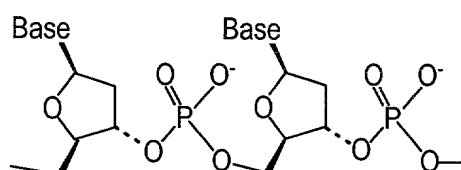


FIG. 9

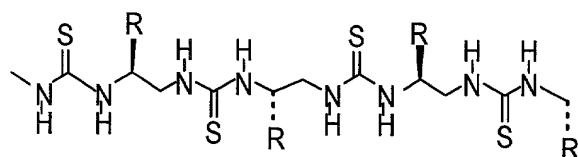
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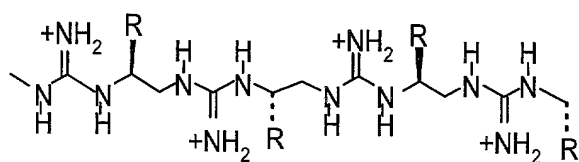
Peptides



Nucleotides



Polythioureas



Polyguanidiniums

FIG. 10

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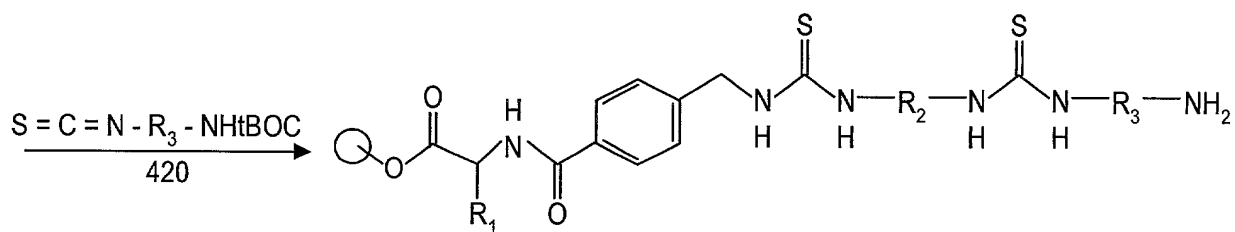
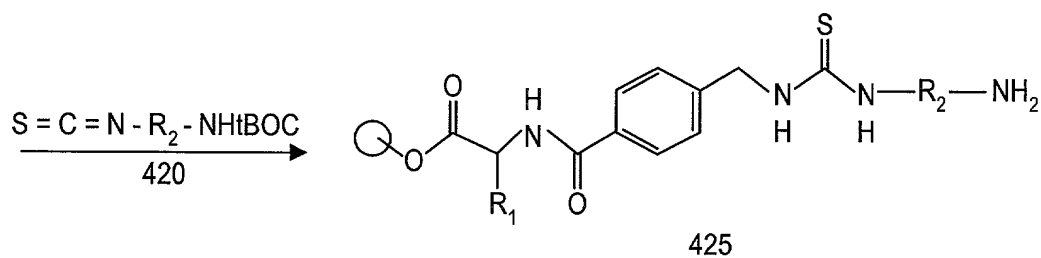
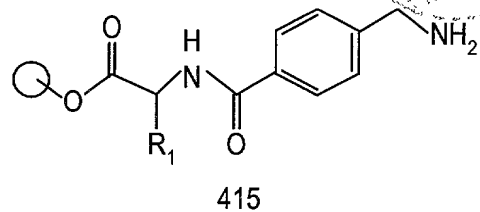
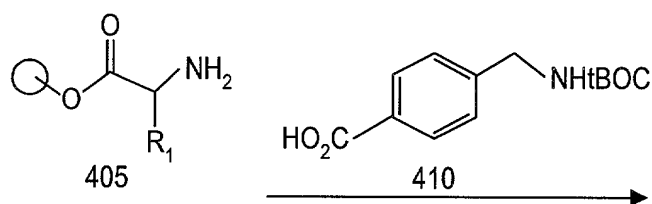


FIG. 11

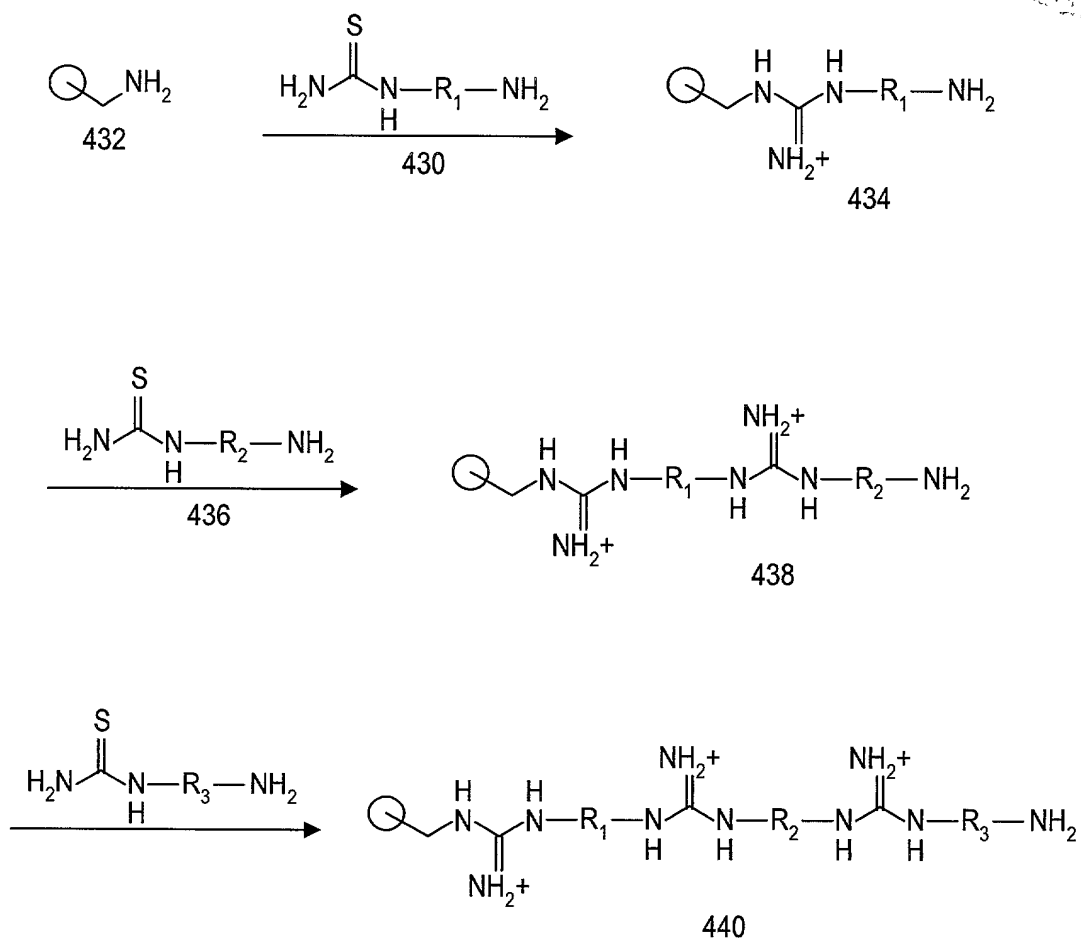
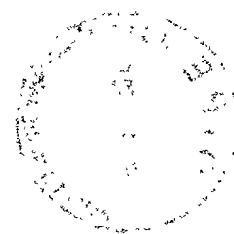


FIG. 12

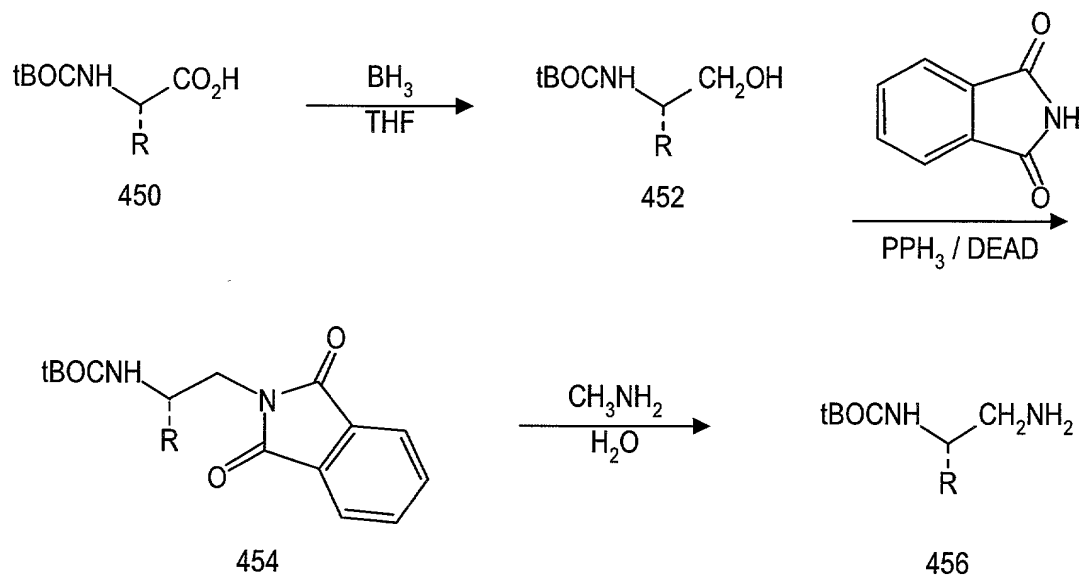


FIG. 13

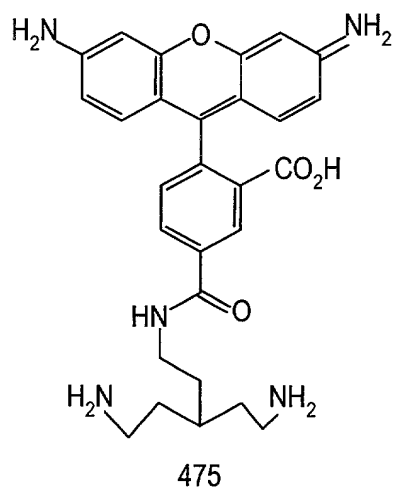
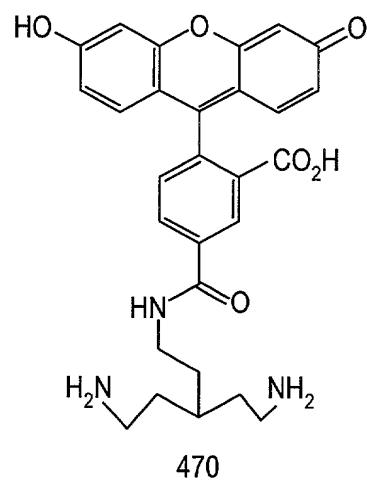


FIG. 14

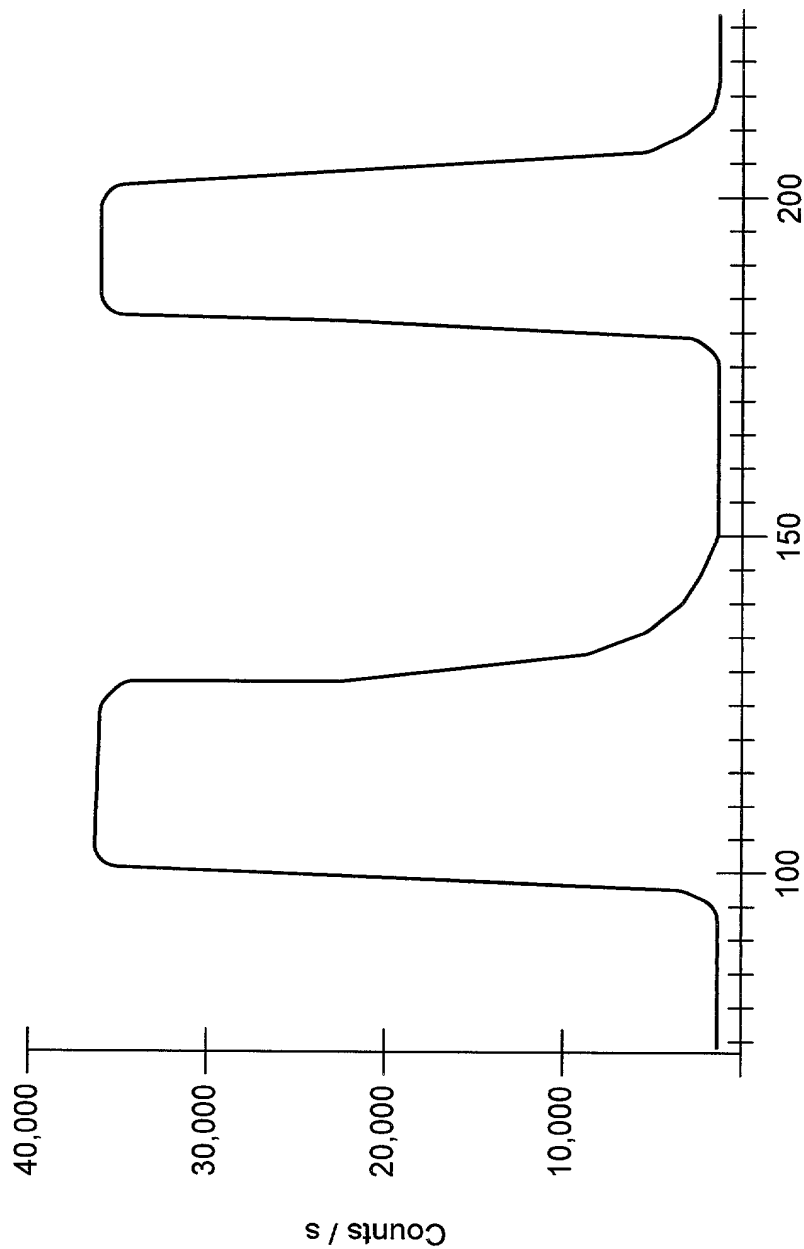
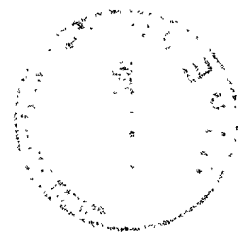


FIG. 15



RESIN: pH      Ion		Blank	Alizarin	o-Cresol-phthalein	Fluorescein	Alizarin-Ce <sup>3+</sup> complex
2	none					
2	Ca <sup>2+</sup>					
7	none					
7	Ca <sup>2+</sup>					
7	F <sup>-</sup>					
12	none					
12	Ca <sup>2+</sup>					
12	F <sup>-</sup>					

FIG. 16

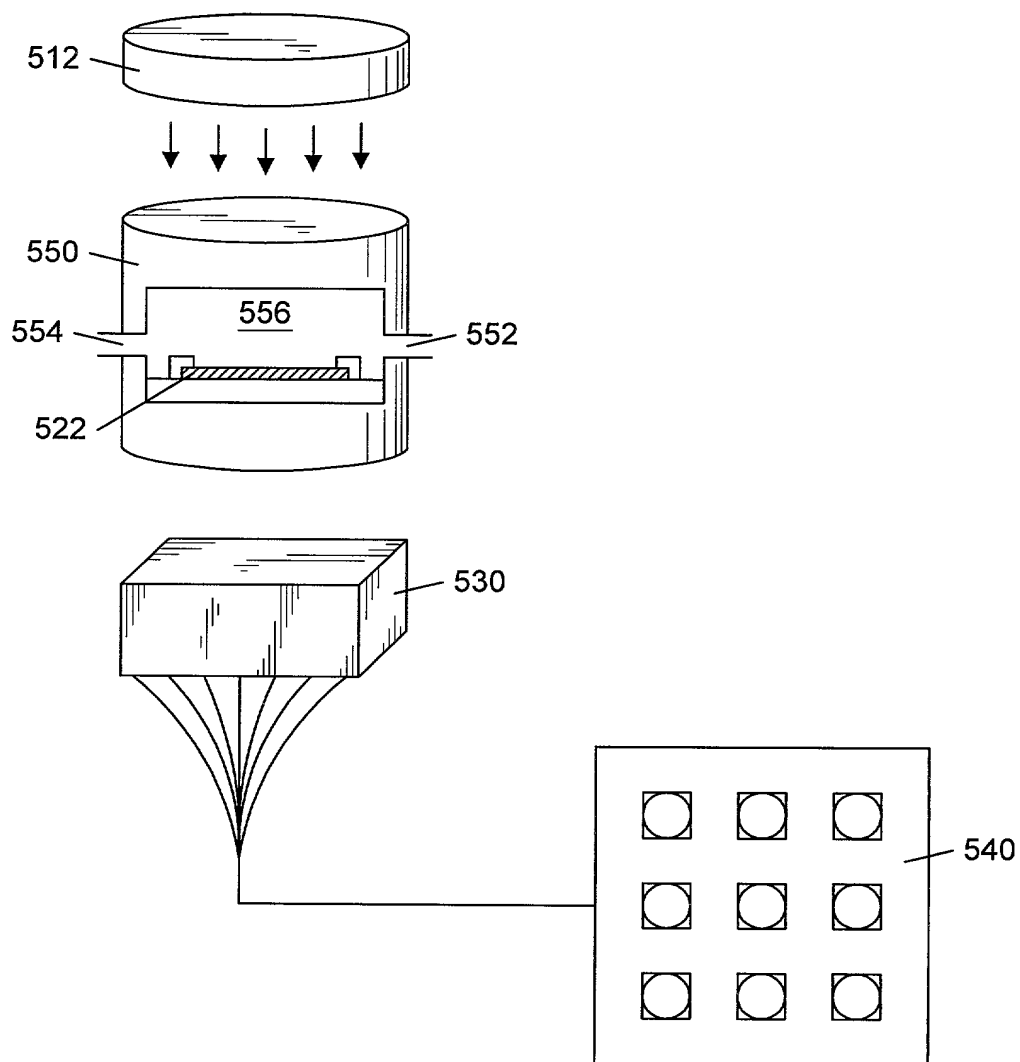
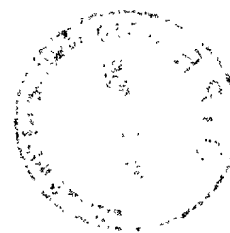


FIG. 17

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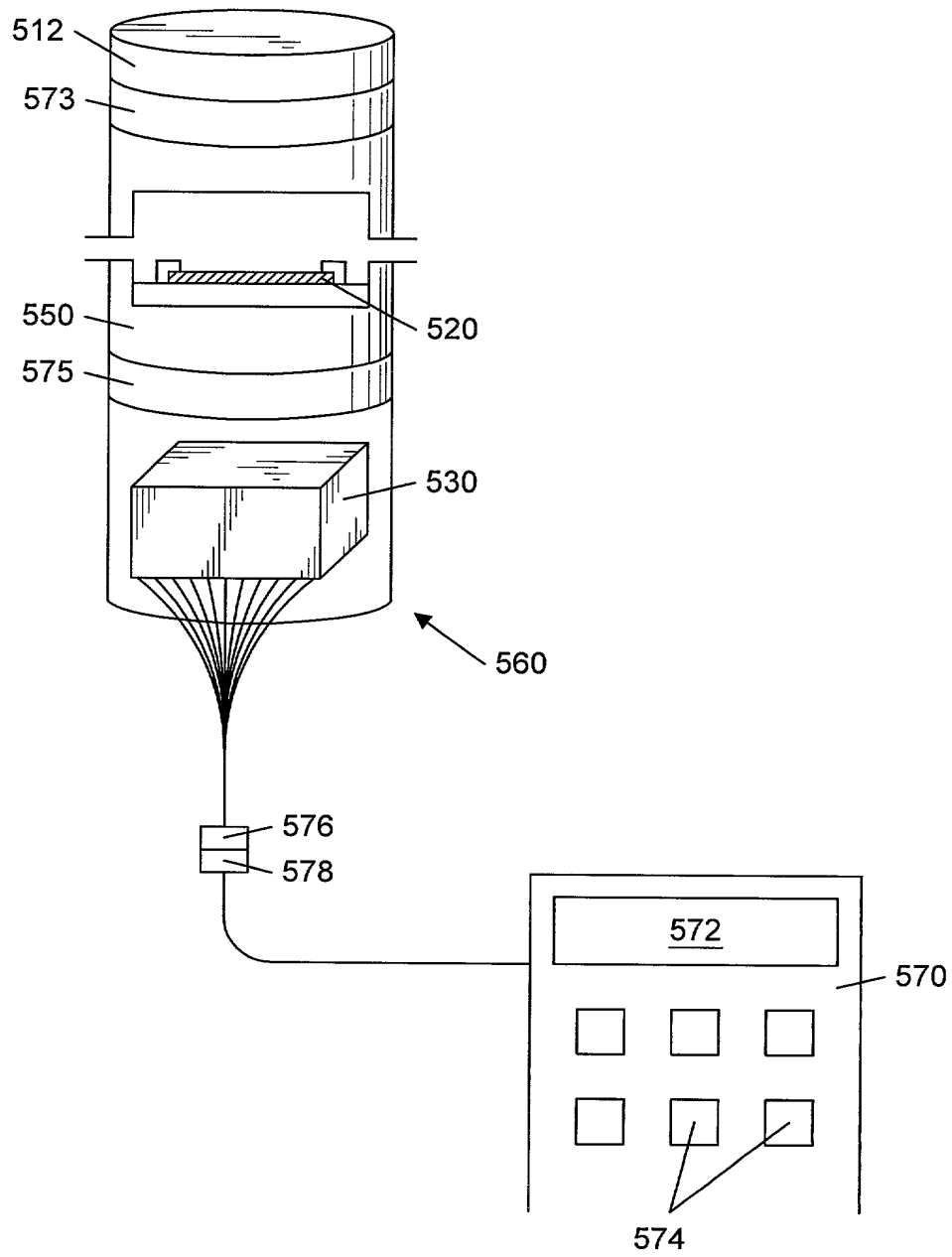
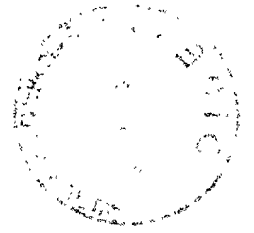


FIG. 18

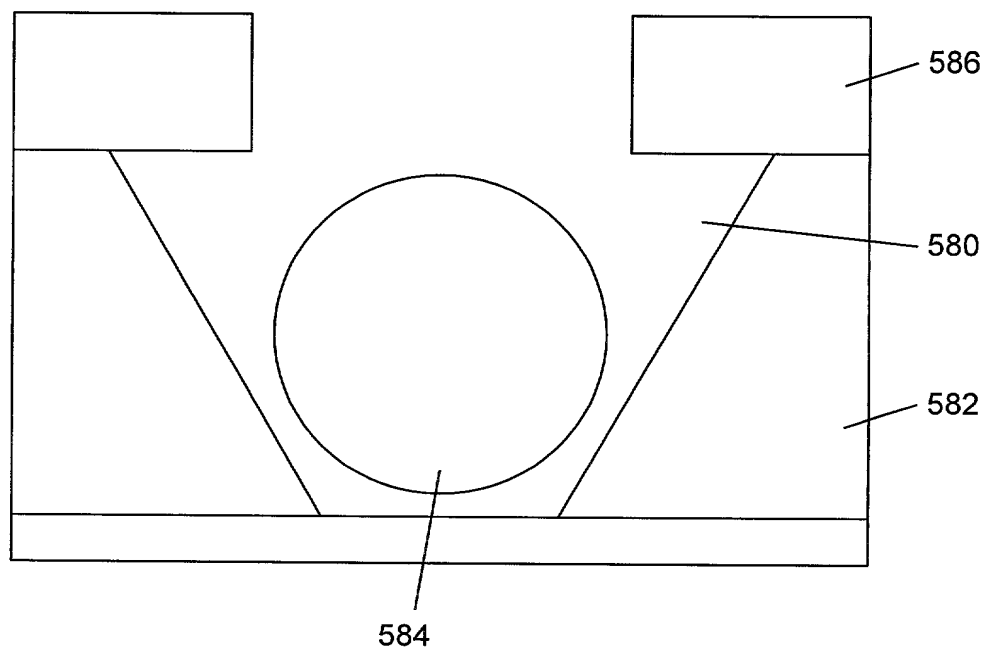


FIG. 19

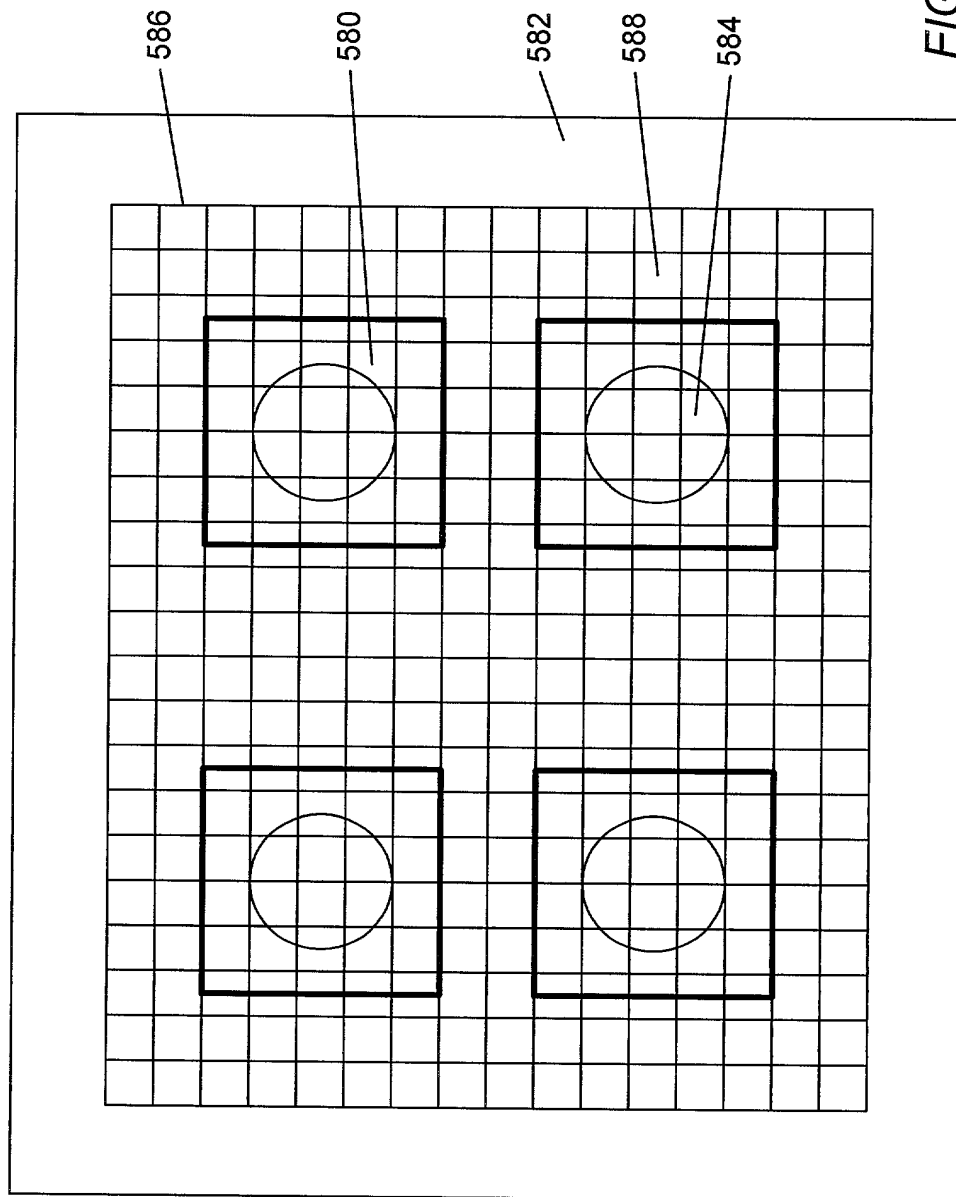


FIG. 20

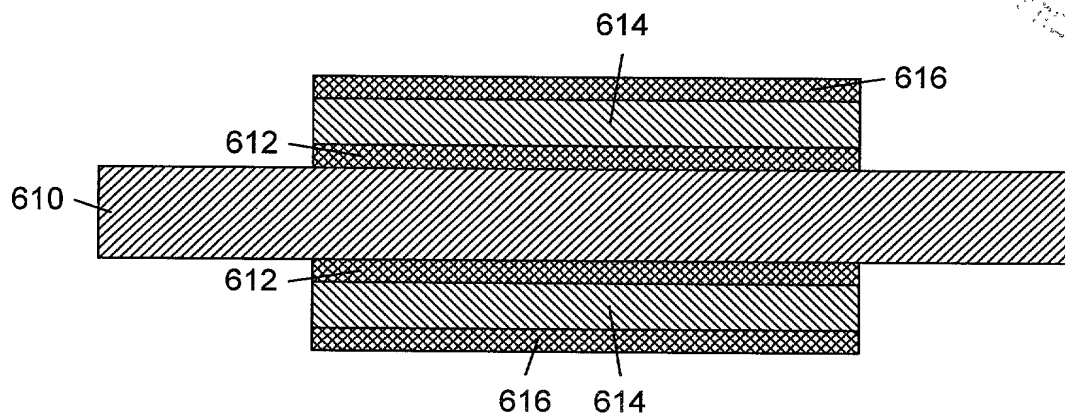
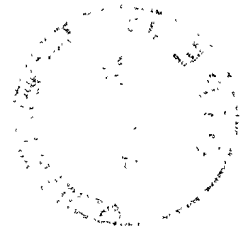


FIG. 21A

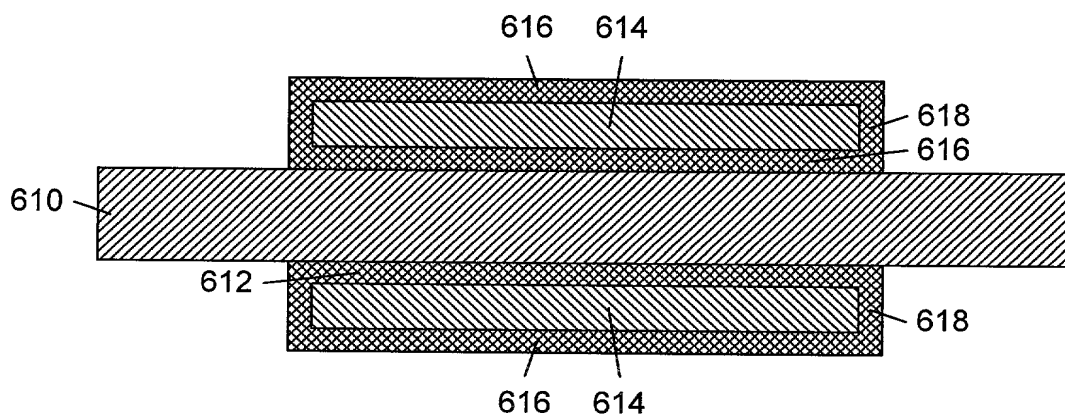


FIG. 21B

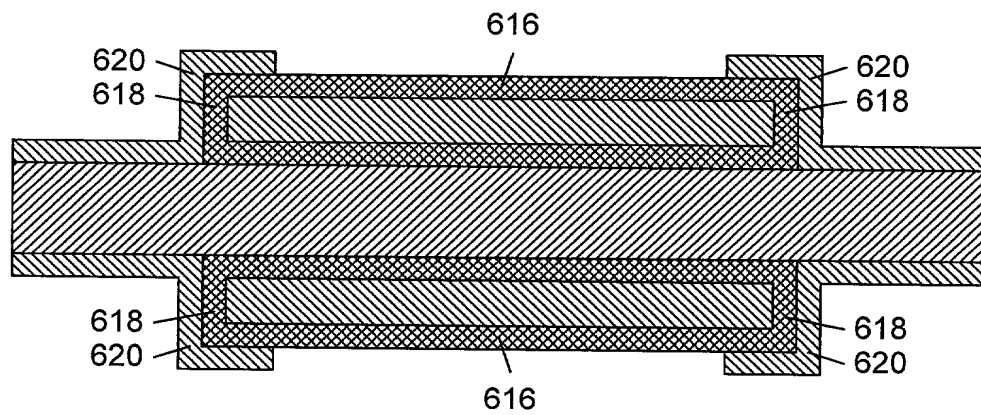


FIG. 21C

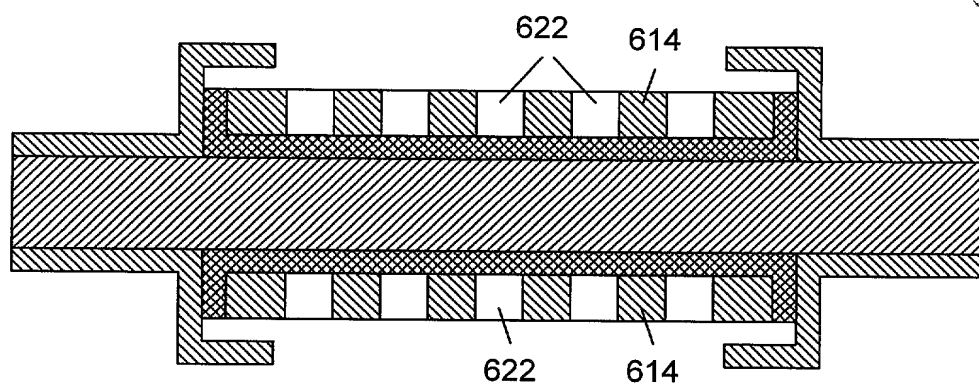


FIG. 21D

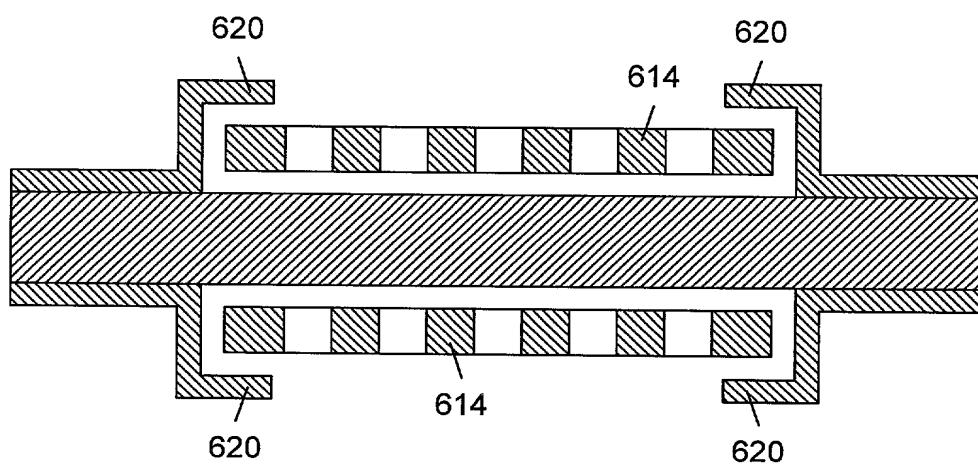


FIG. 21E

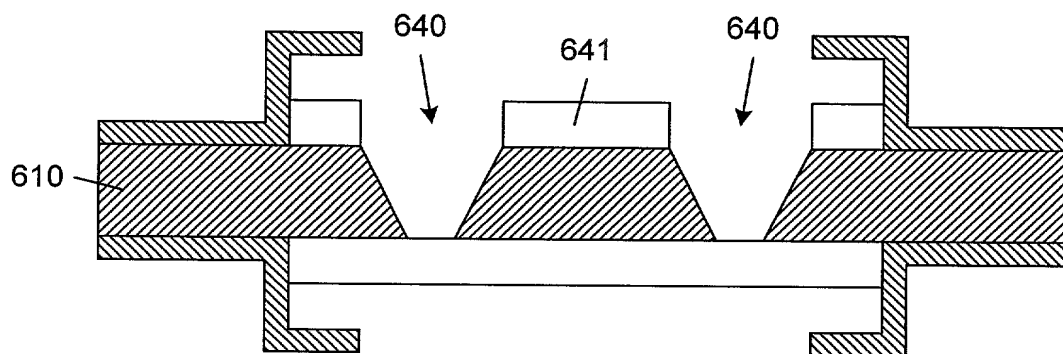
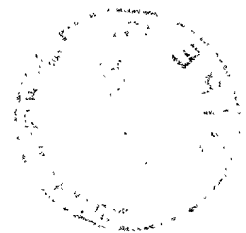


FIG. 21F

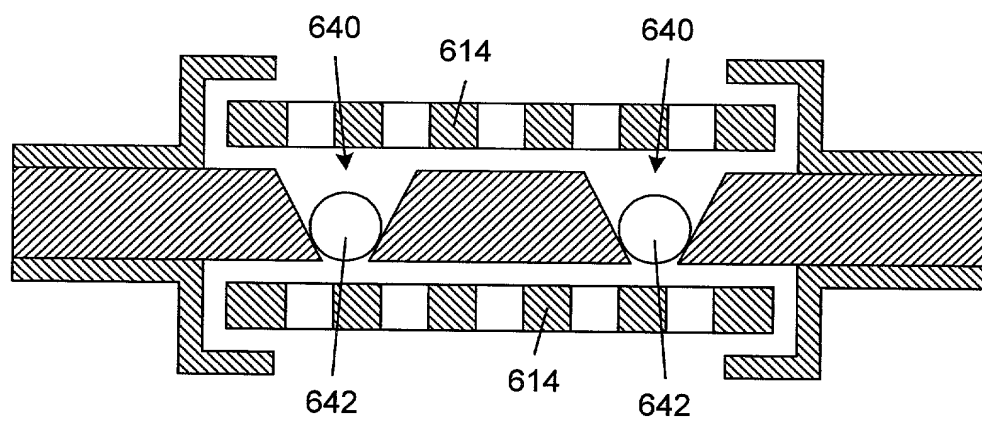


FIG. 21G

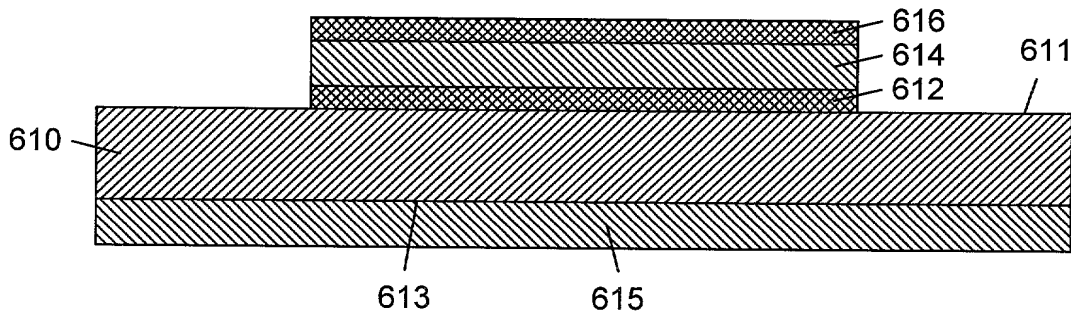
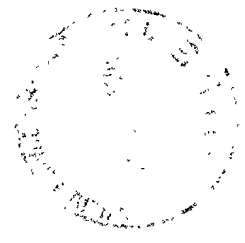


FIG. 22A

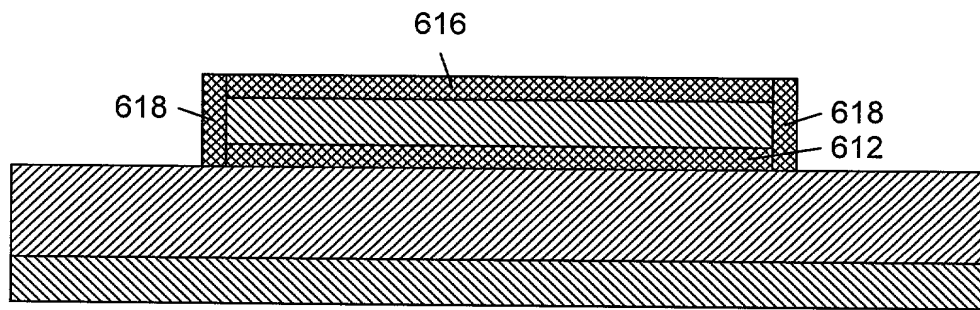


FIG. 22B

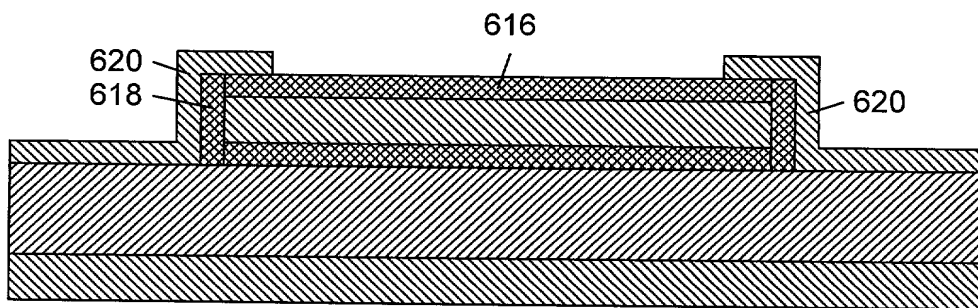


FIG. 22C

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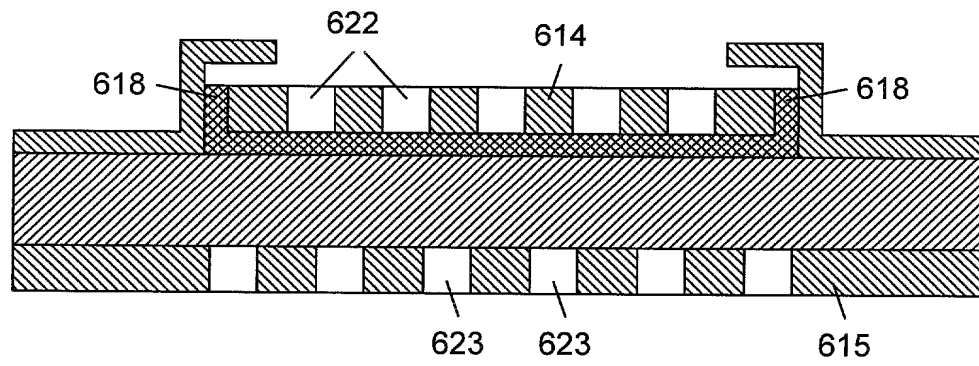
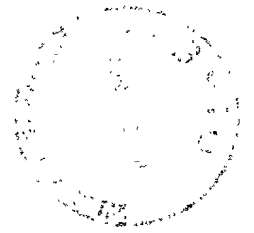


FIG. 22D

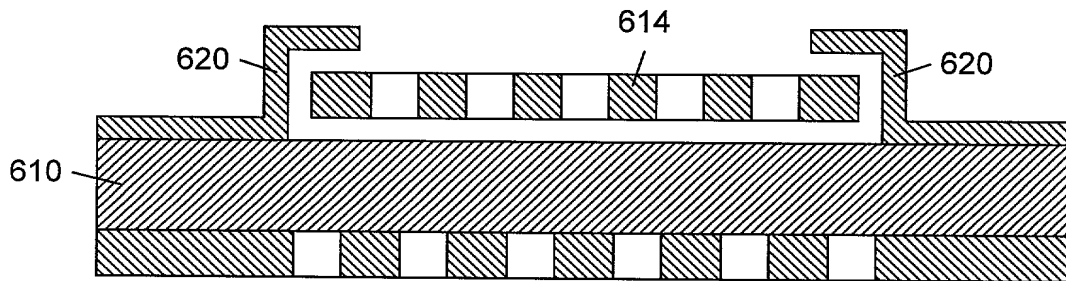


FIG. 22E

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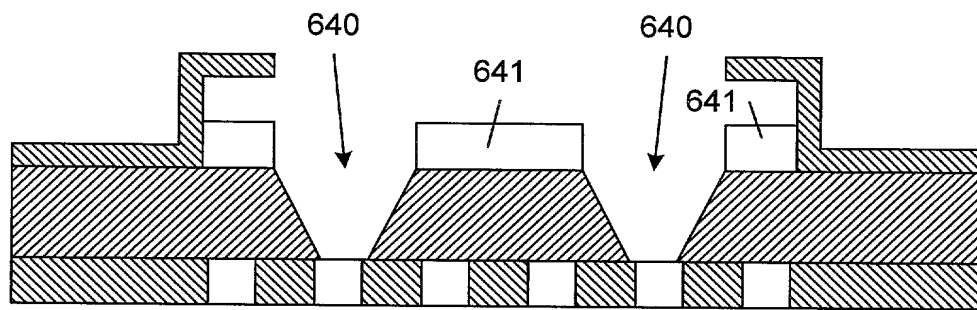
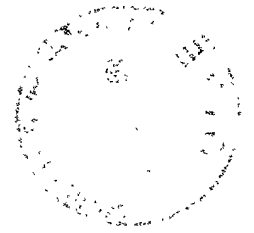


FIG. 22F

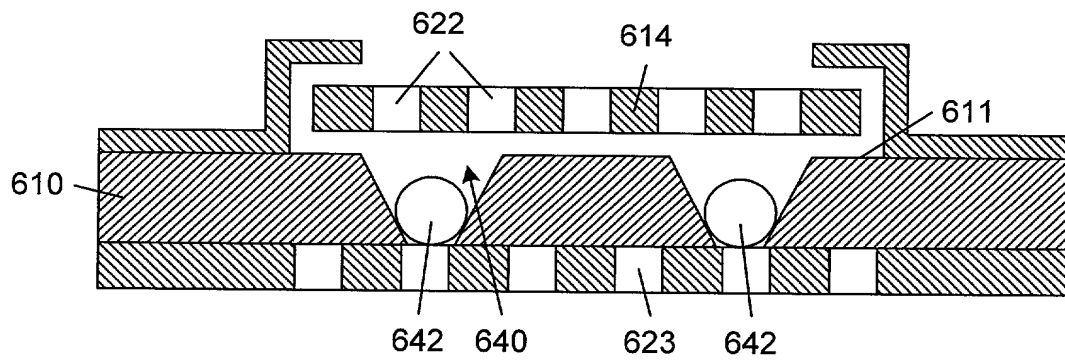


FIG. 22G

2007/07/08 09:00

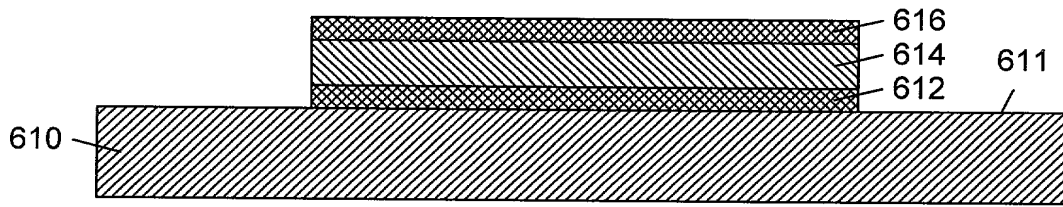
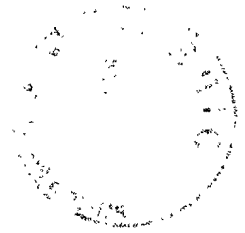


FIG. 23A

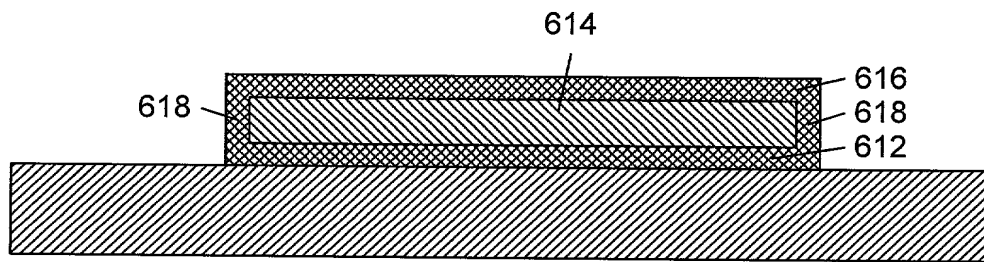


FIG. 23B

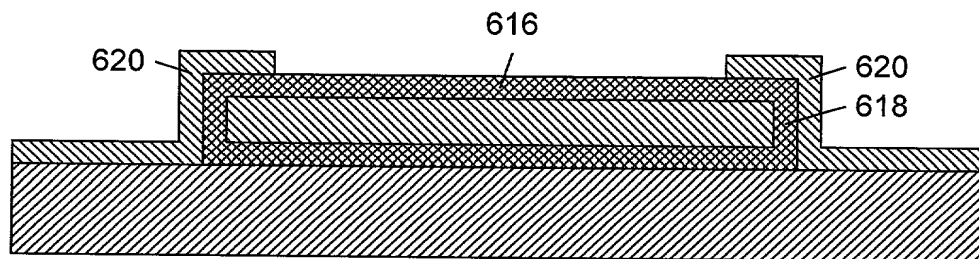


FIG. 23C

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10078800.071800

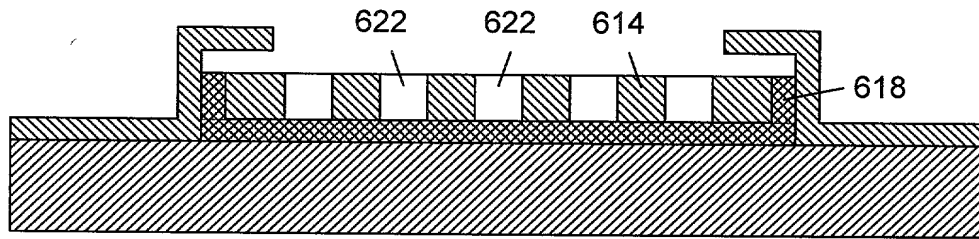


FIG. 23D

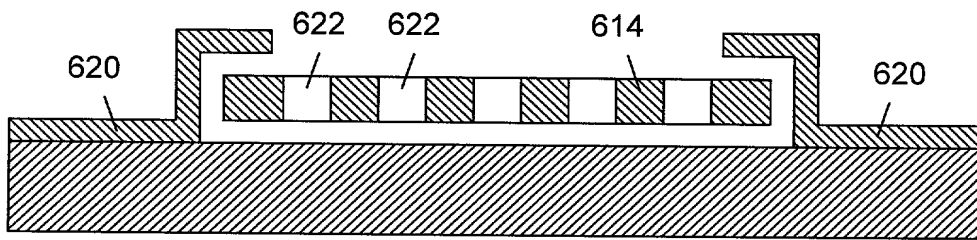


FIG. 23E

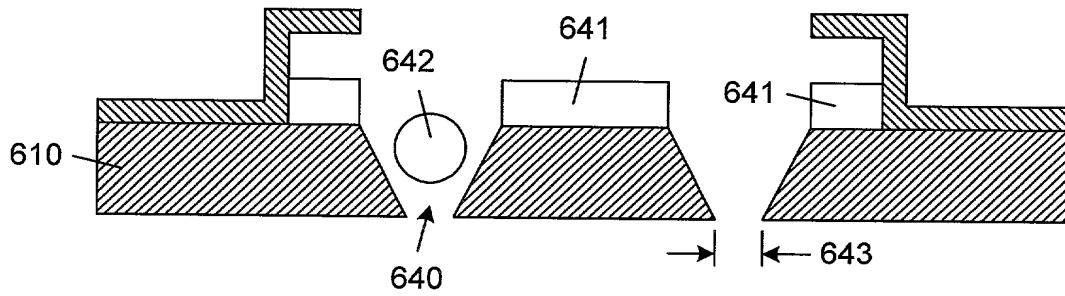
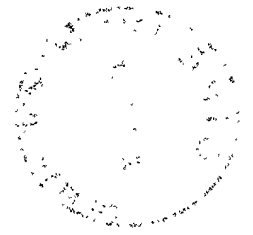


FIG. 23F

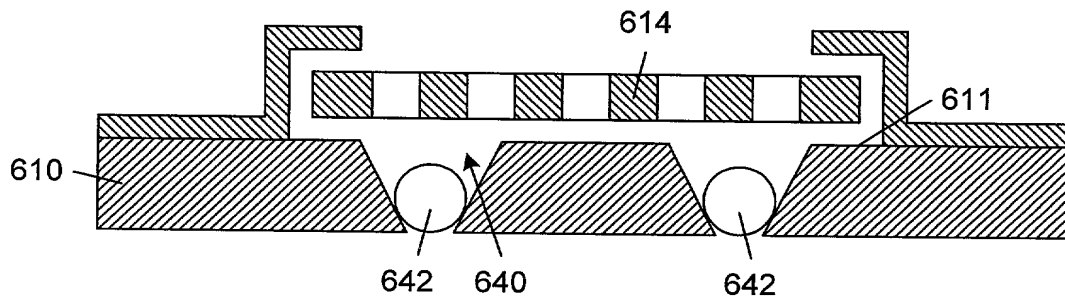


FIG. 23G

208720-00822001

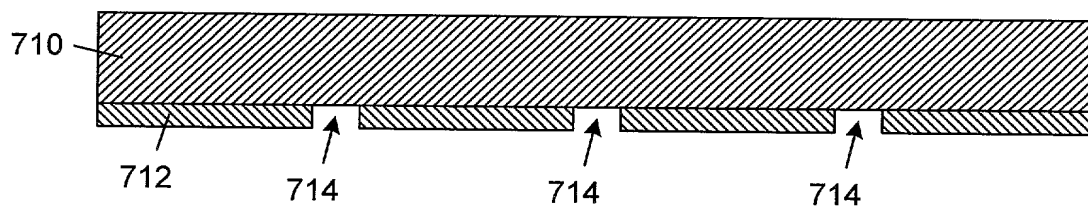


FIG. 24A

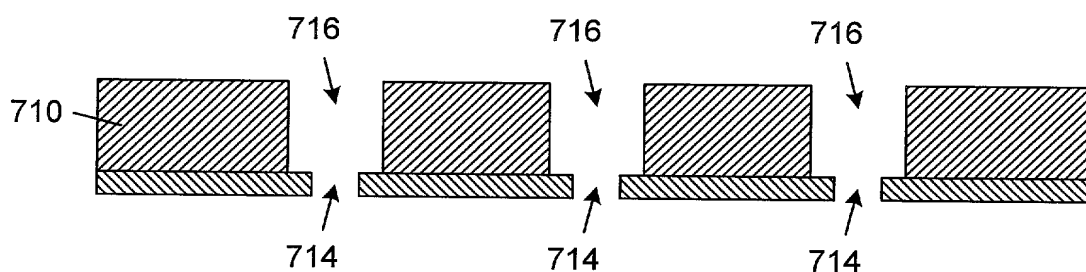


FIG. 24B

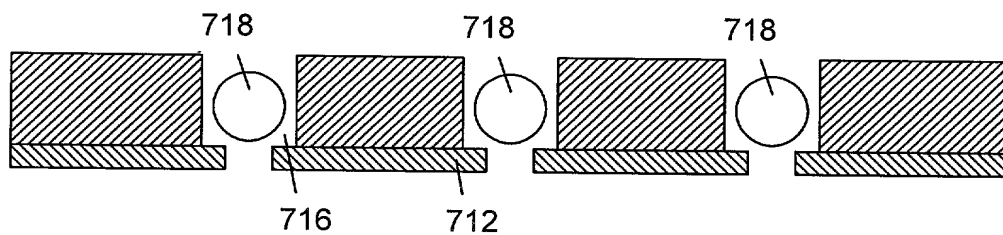


FIG. 24C

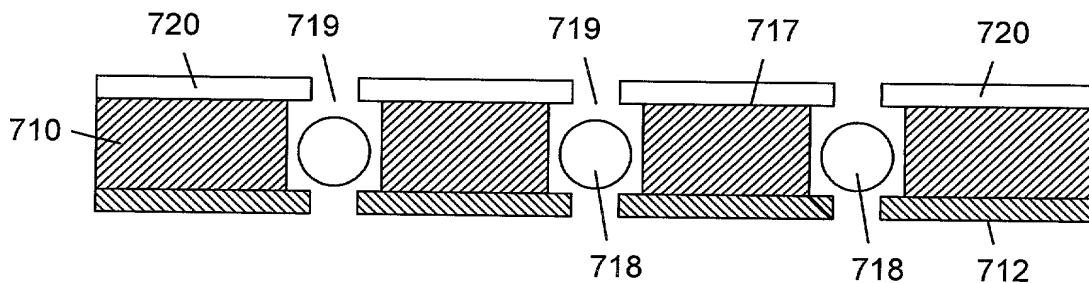


FIG. 24D

208T20"0082200T

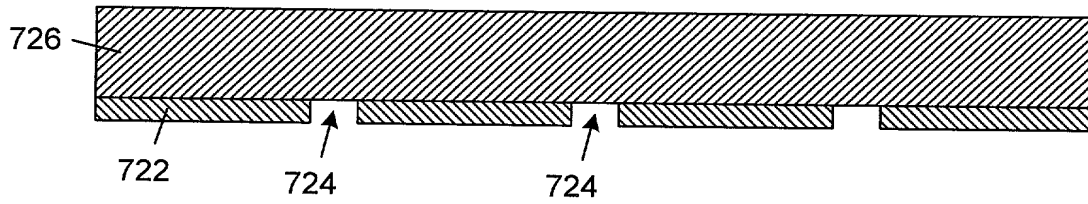
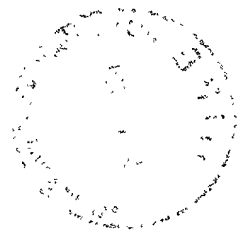


FIG. 25A

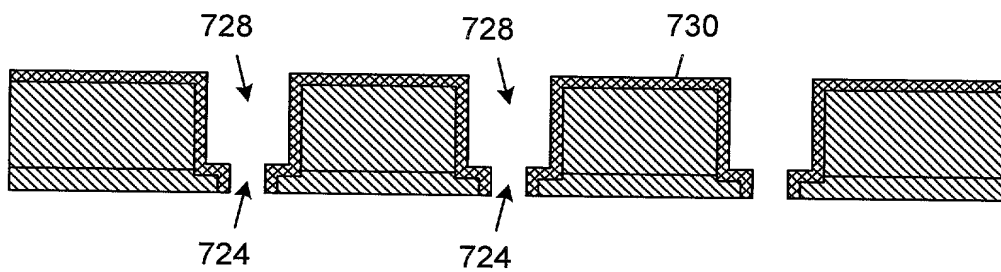


FIG. 25B

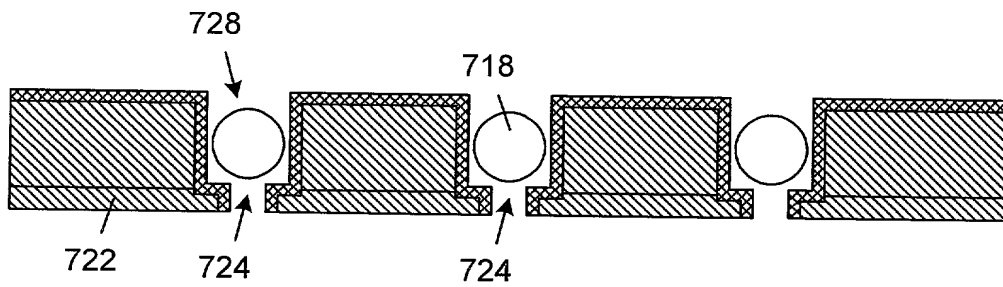


FIG. 25C

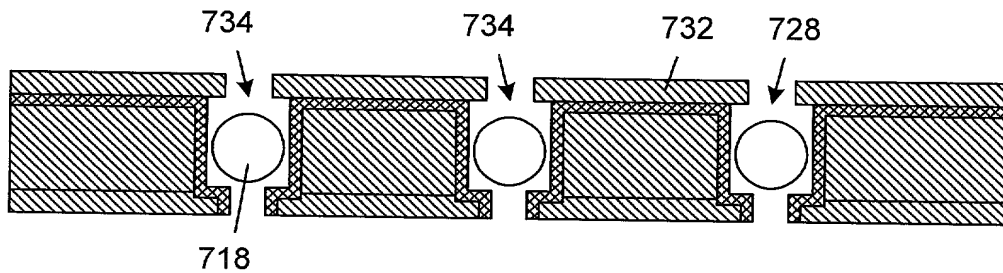
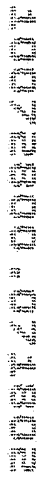
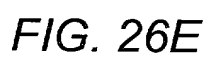
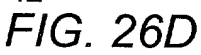
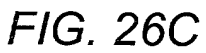


FIG. 25D

2007-01-08 00:00:00



**FIG. 26B**



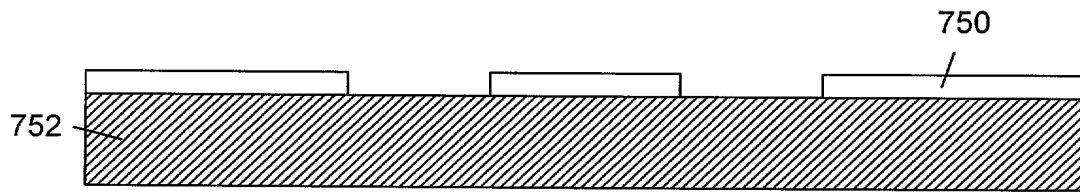


FIG. 27A

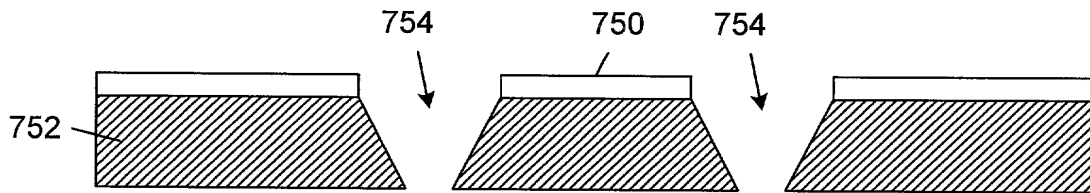


FIG. 27B

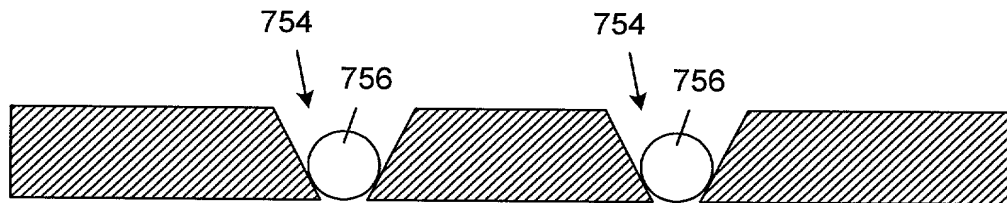


FIG. 27C

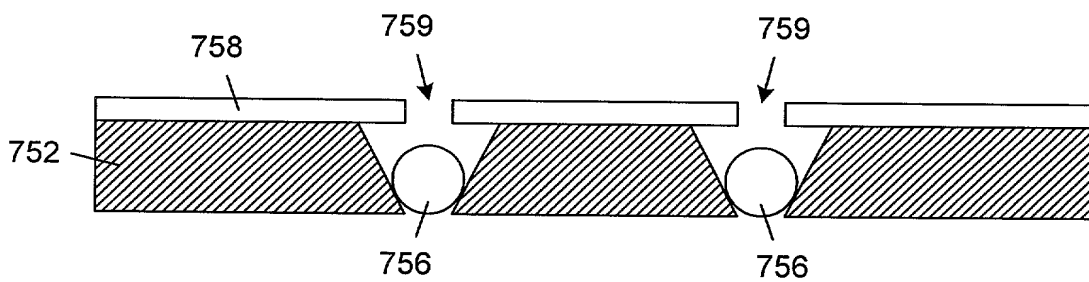


FIG. 27D

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FIG. 28A

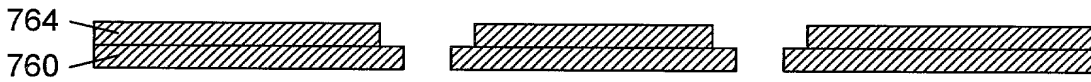


FIG. 28B

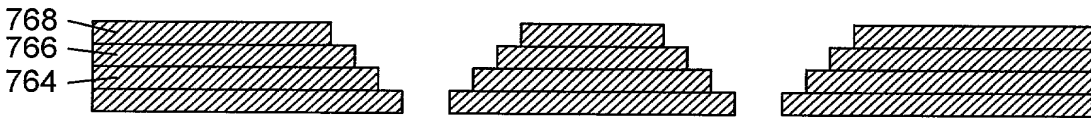


FIG. 28C

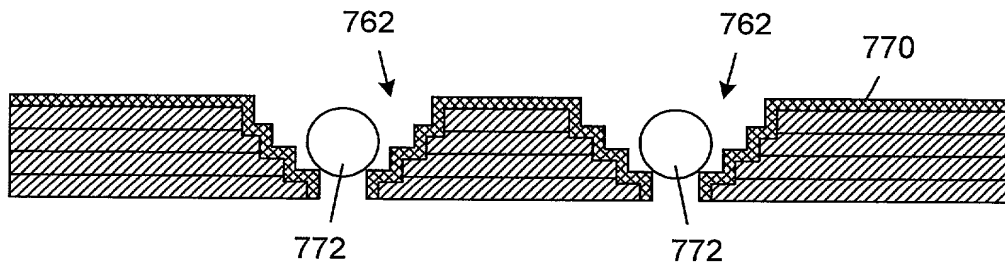


FIG. 28D

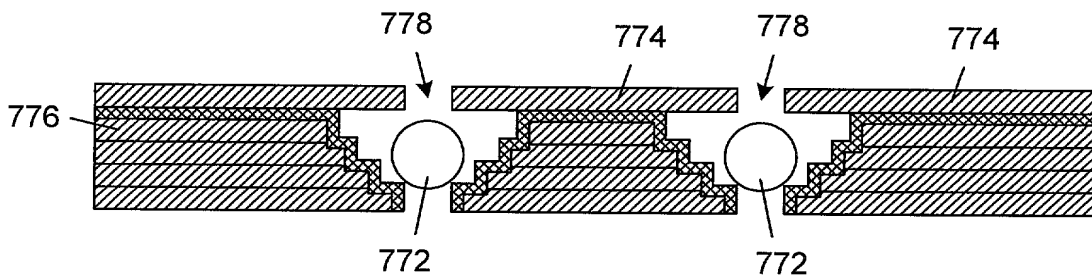


FIG. 28E

2024-01-08 00:00:00

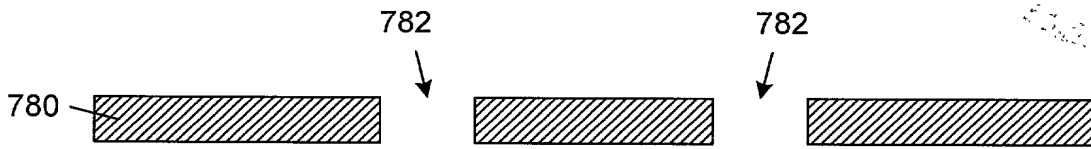


FIG. 29A

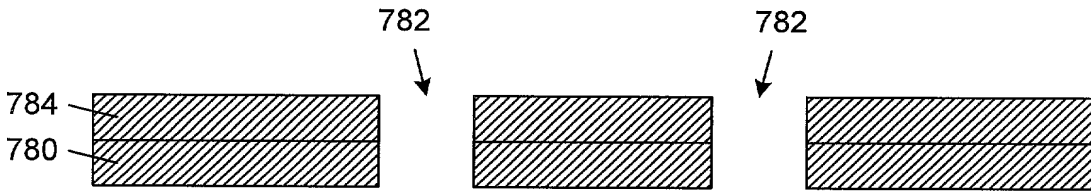


FIG. 29B

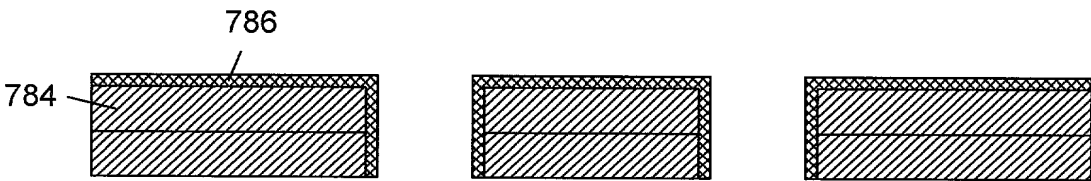


FIG. 29C

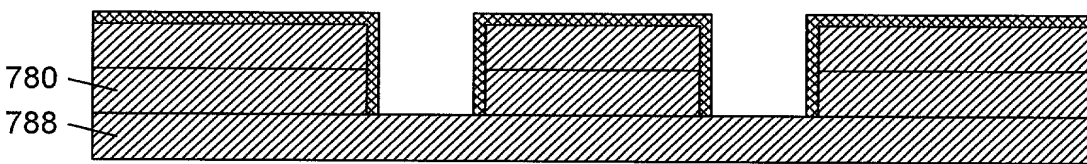


FIG. 29D

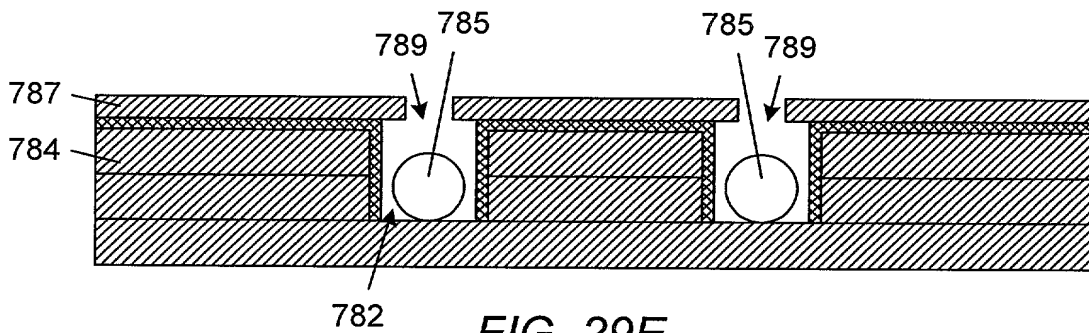


FIG. 29E

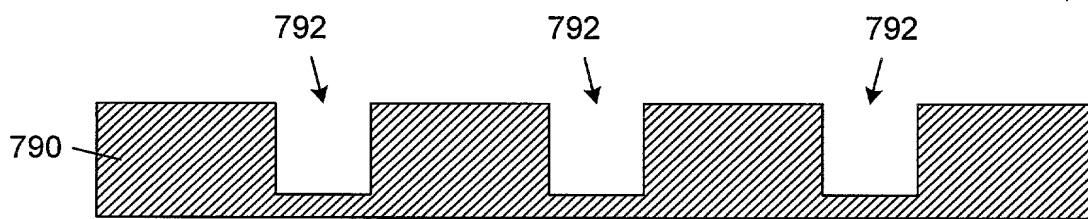
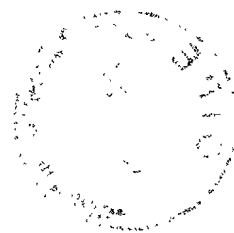


FIG. 30A

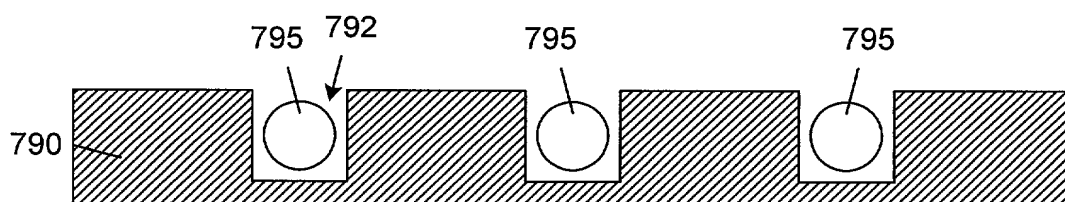


FIG. 30B

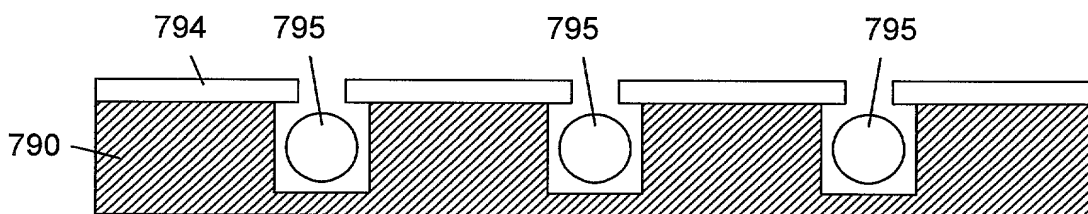


FIG. 30C

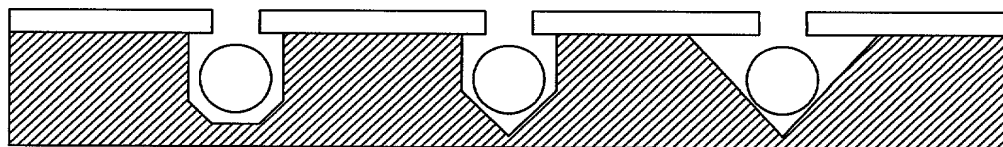


FIG. 30D

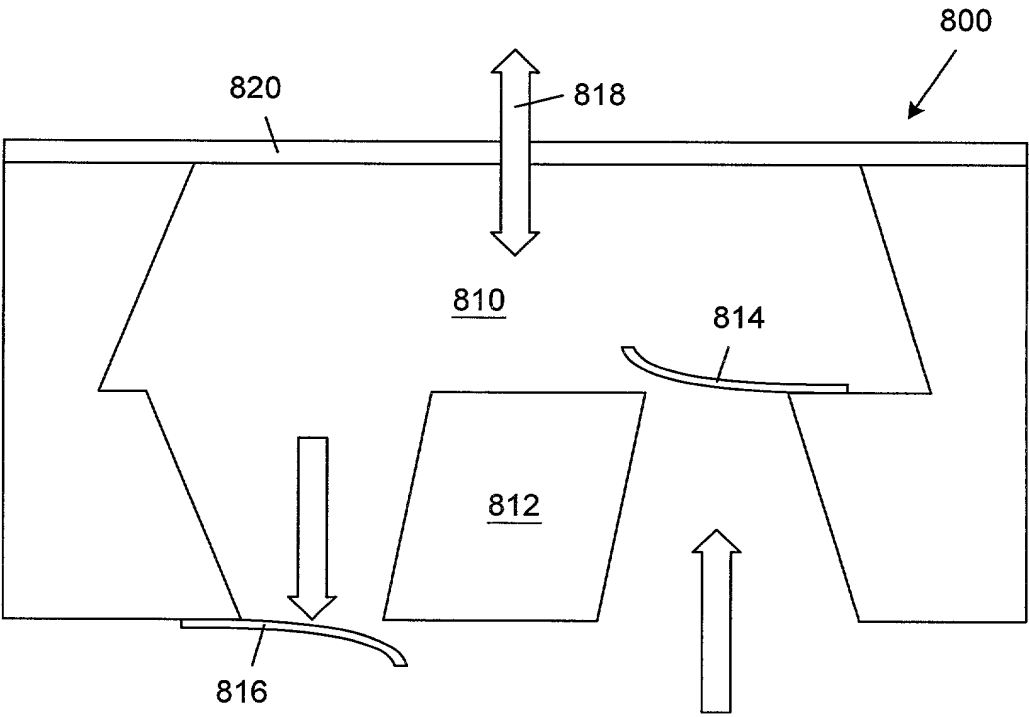
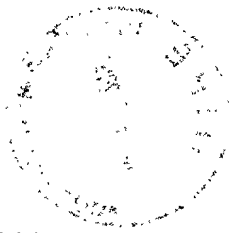


FIG. 31

2024.01.08 00:00:00

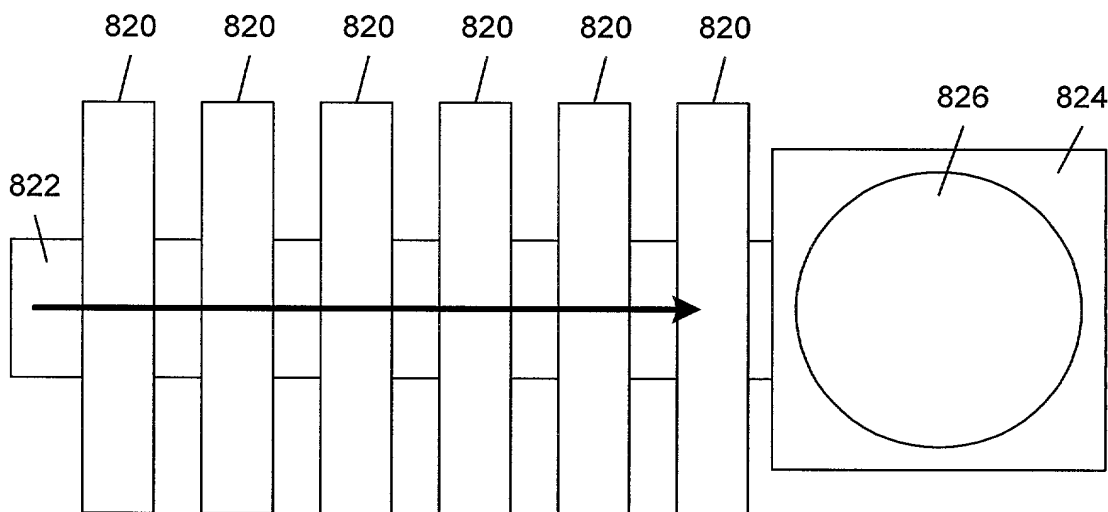
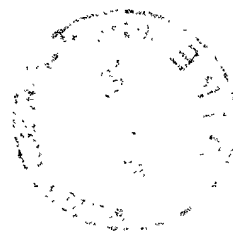
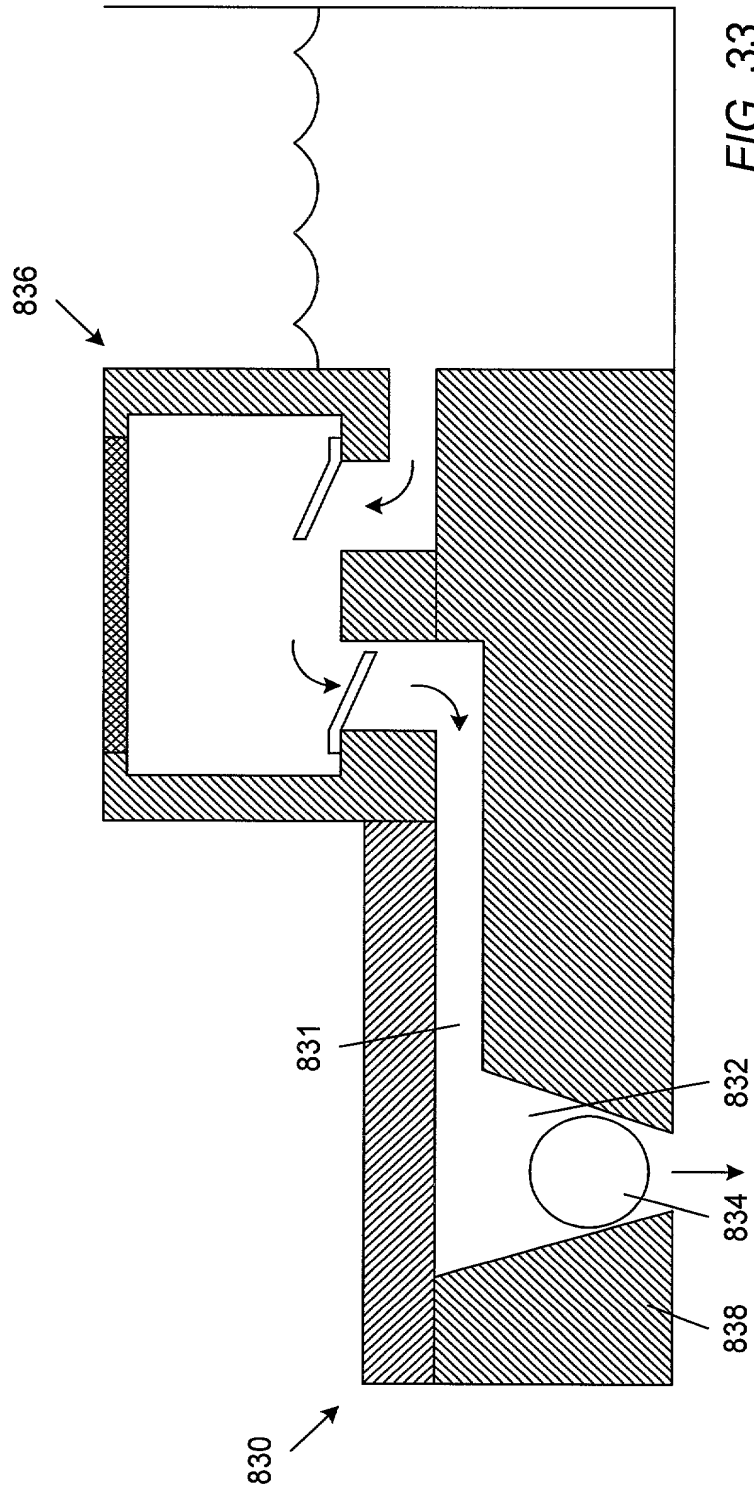


FIG. 32

2024-08-20



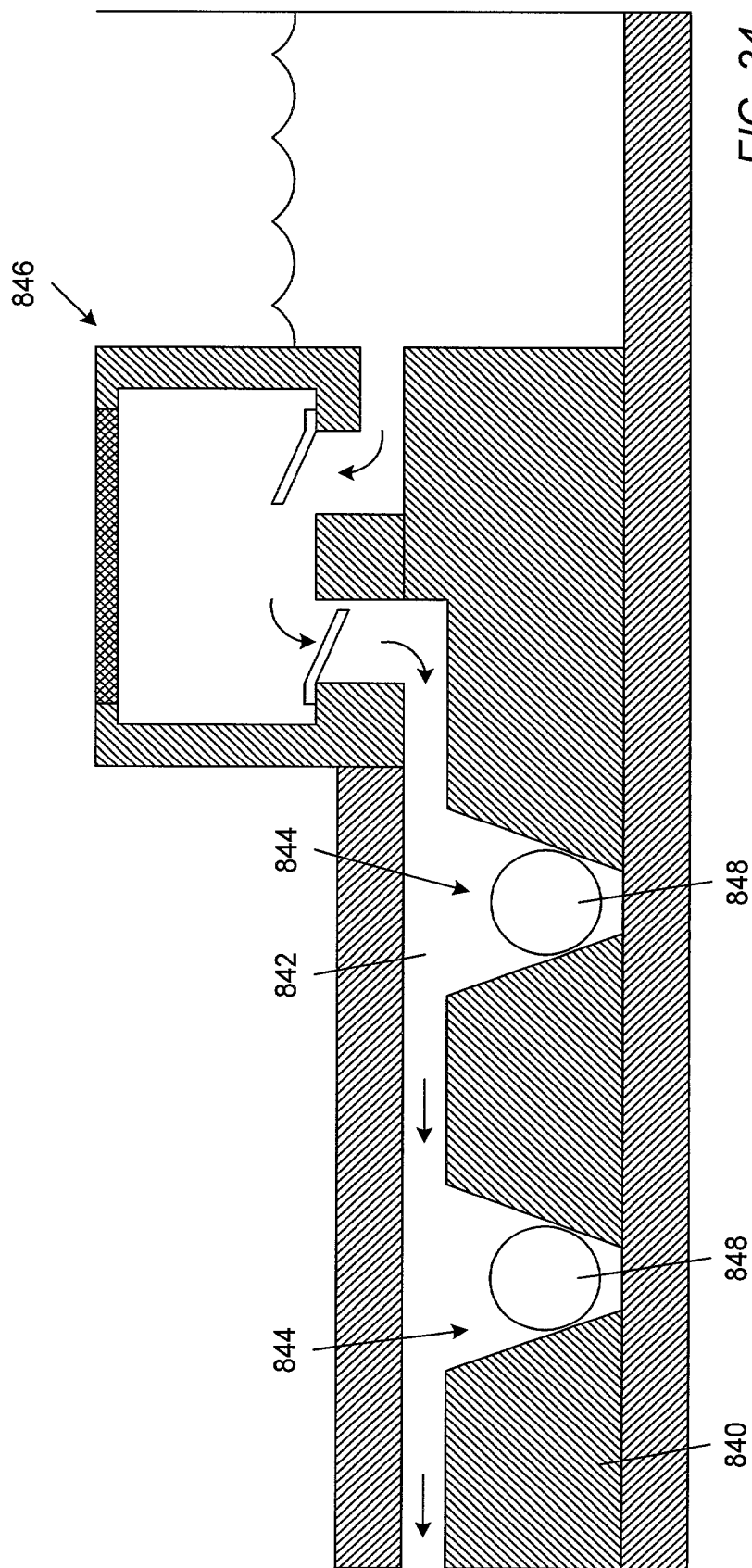


FIG. 34



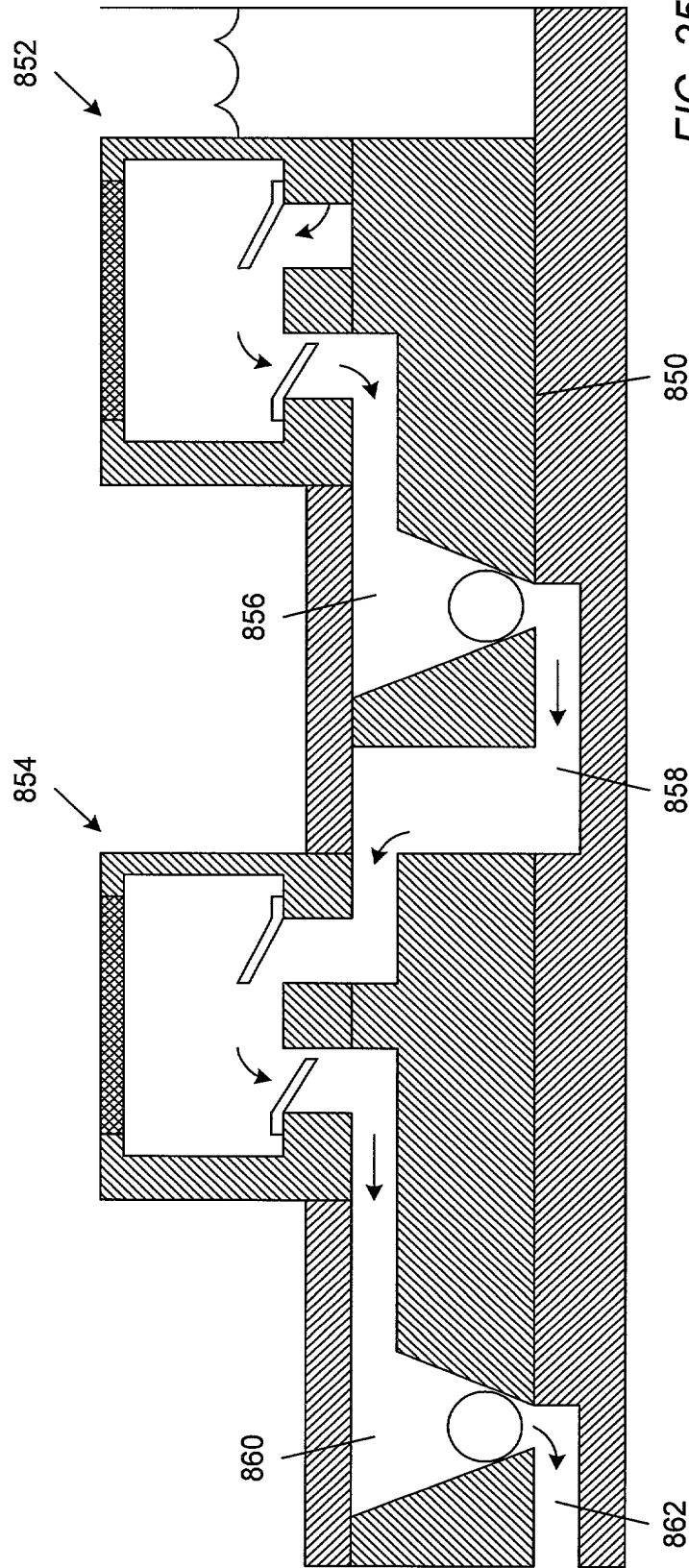
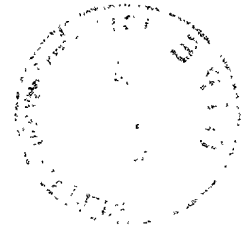


FIG. 35



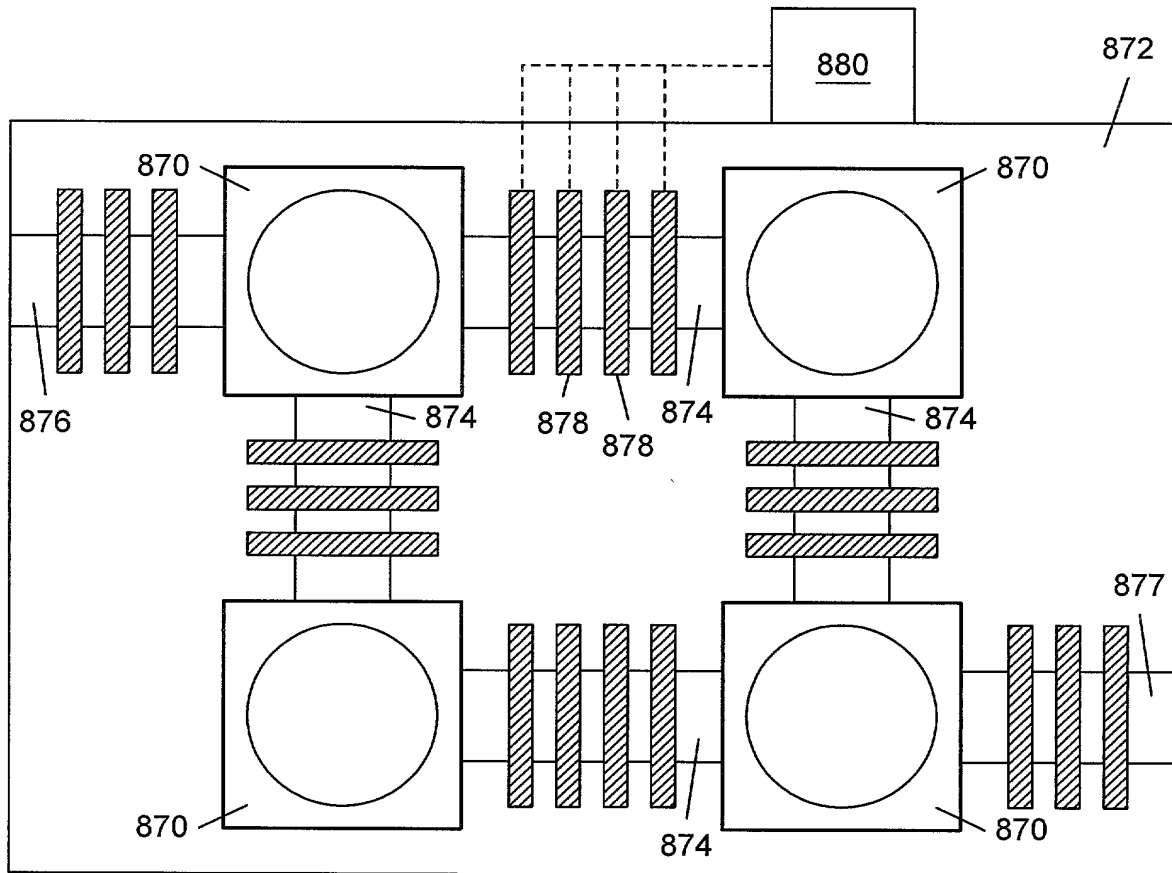


FIG. 36

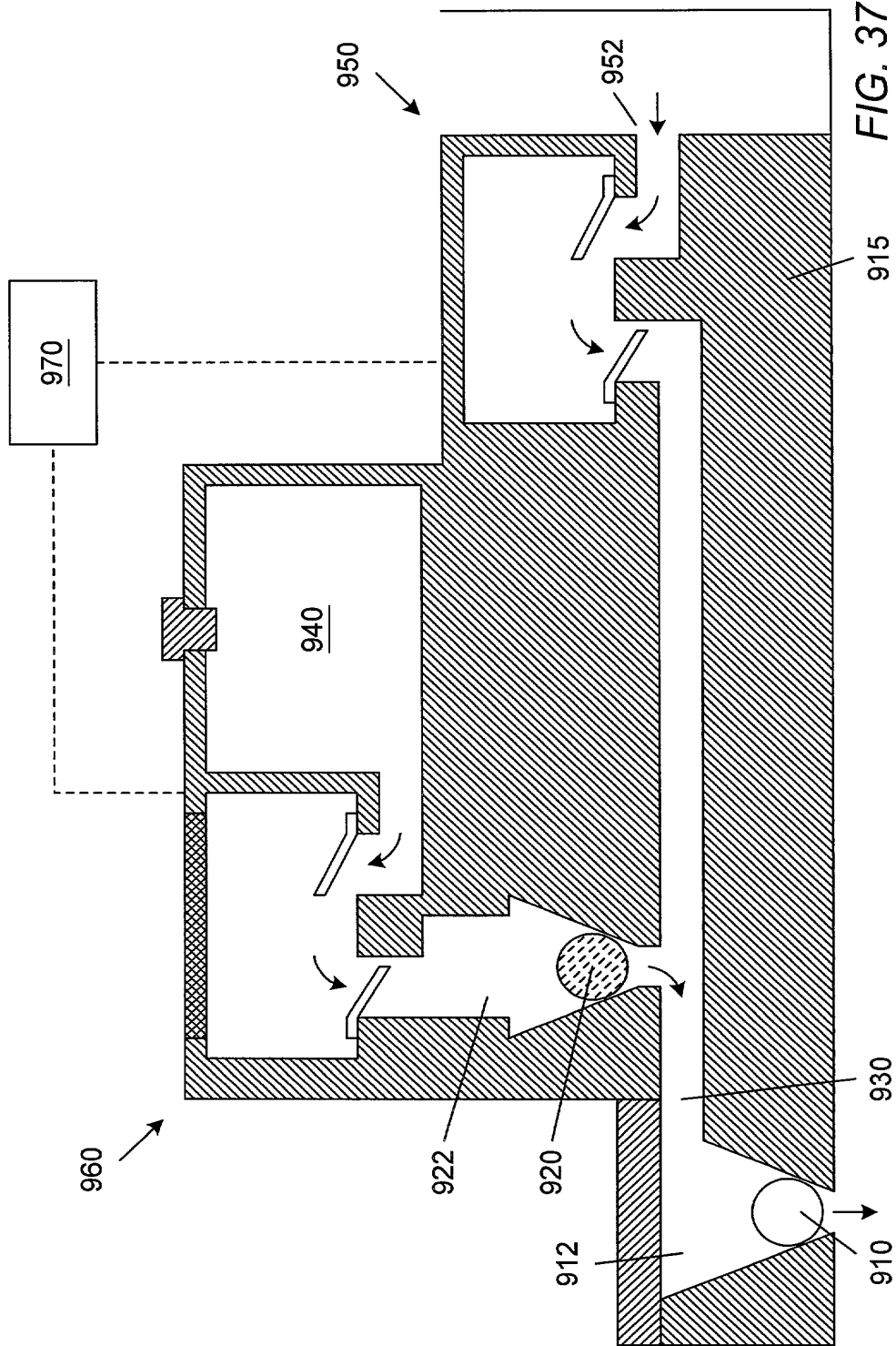
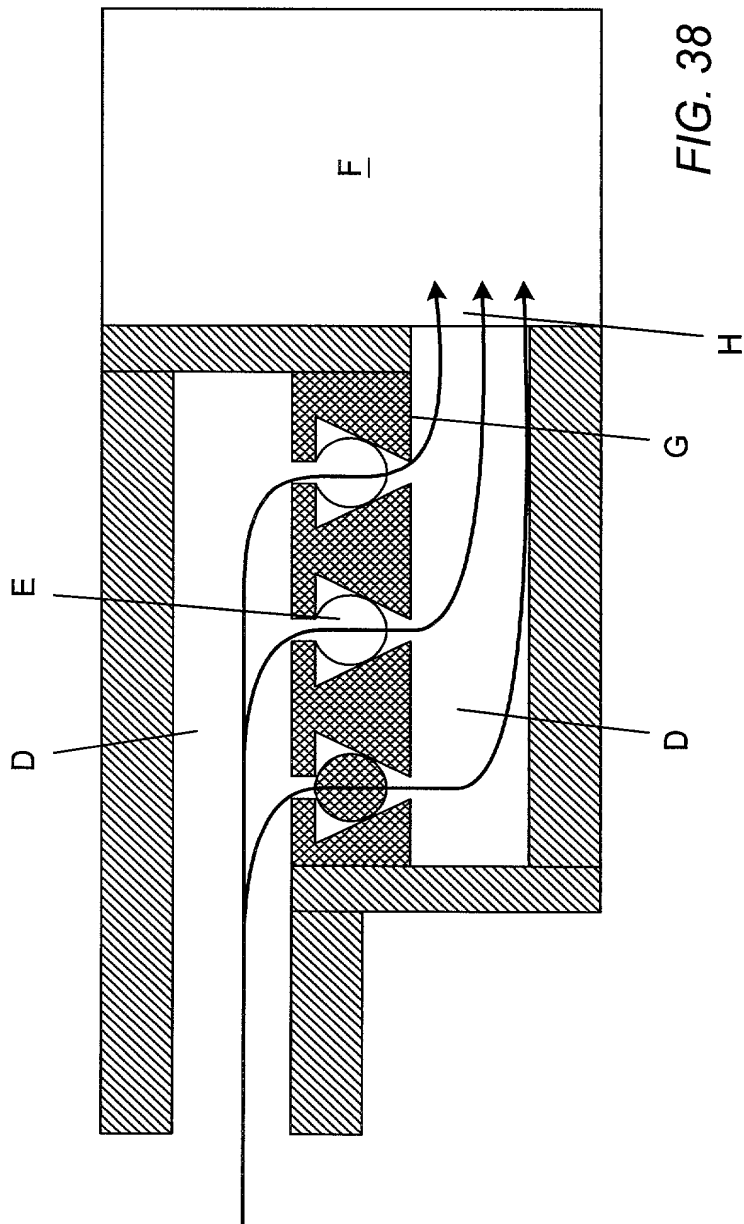


FIG. 37



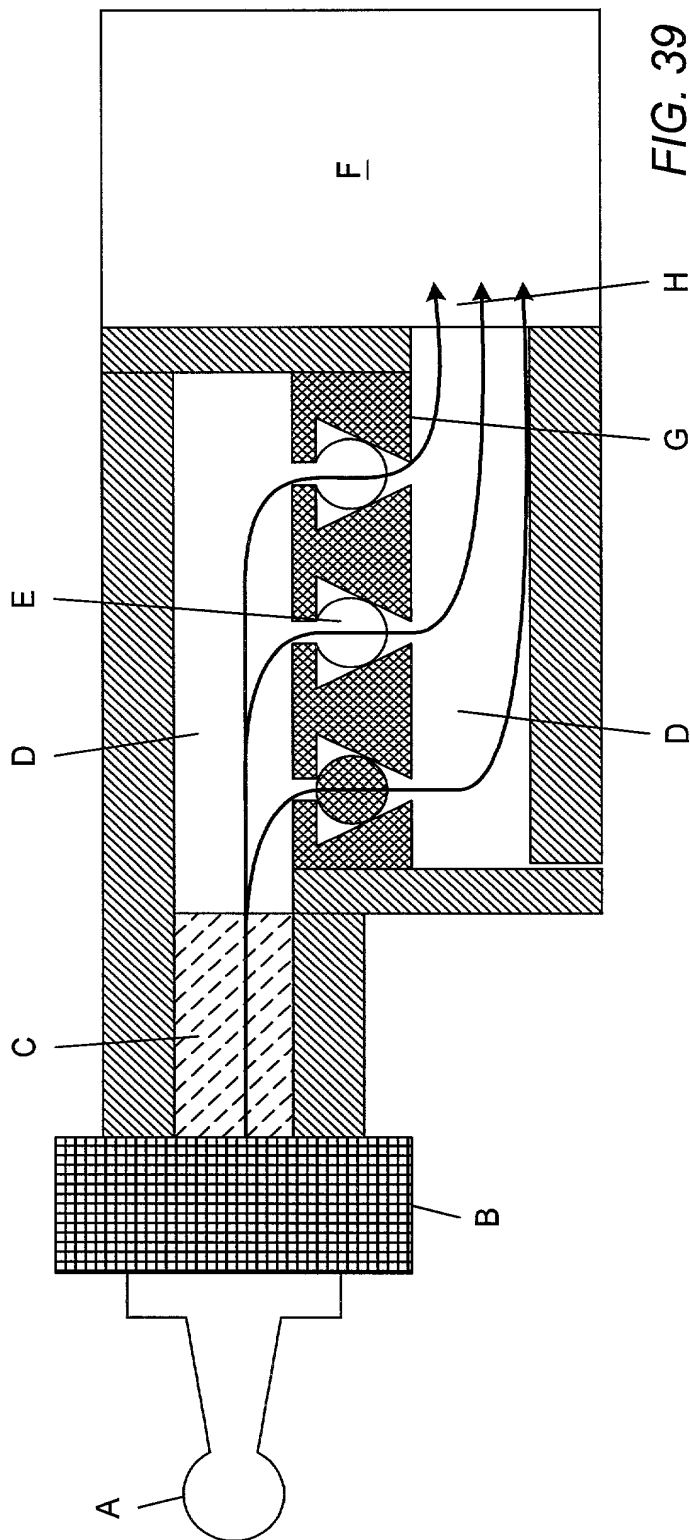
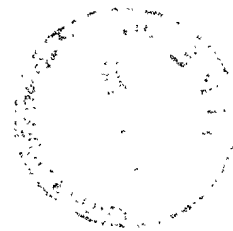


FIG. 39



2025/10/08 22:00

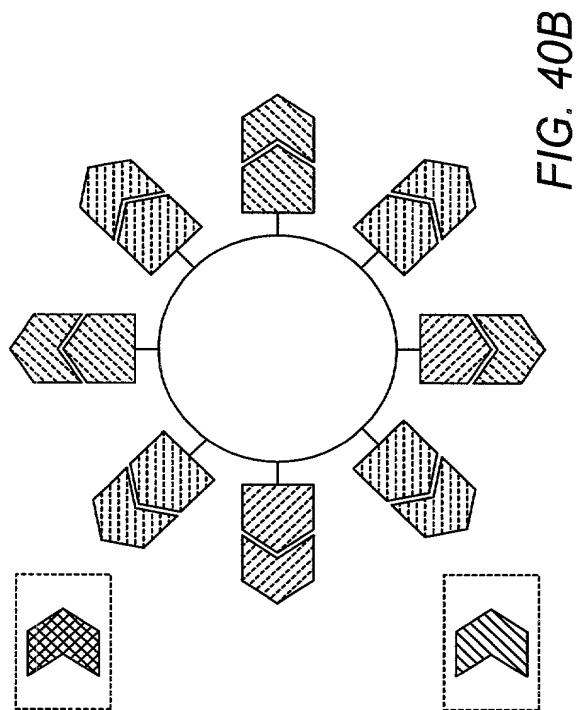


FIG. 40B

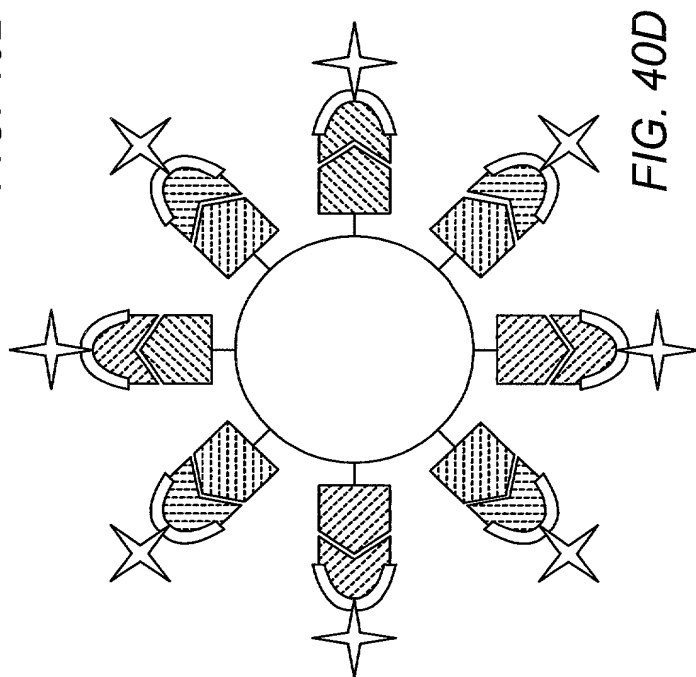


FIG. 40D

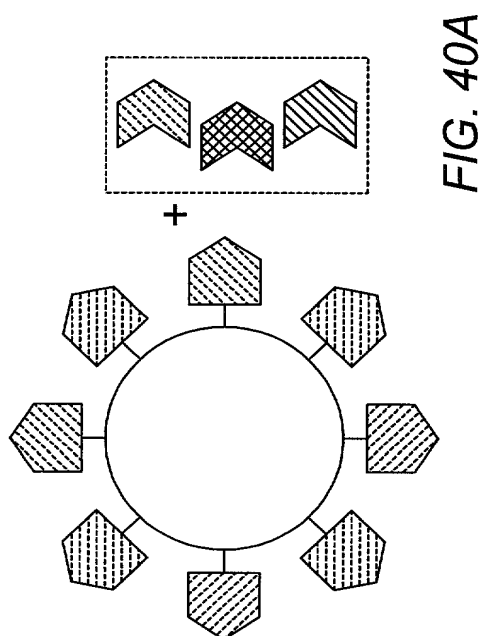


FIG. 40A

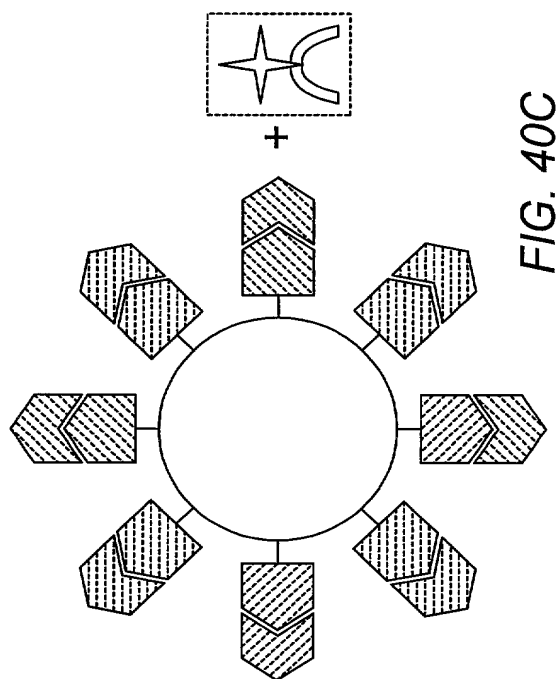


FIG. 40C

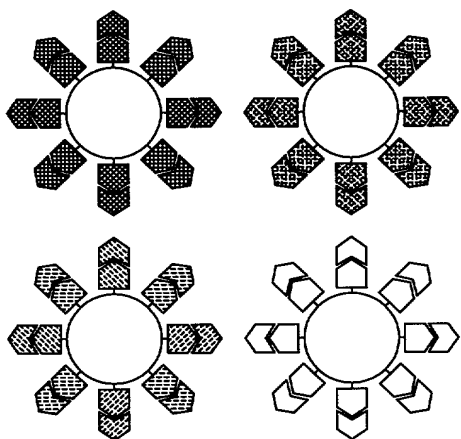


FIG. 41B

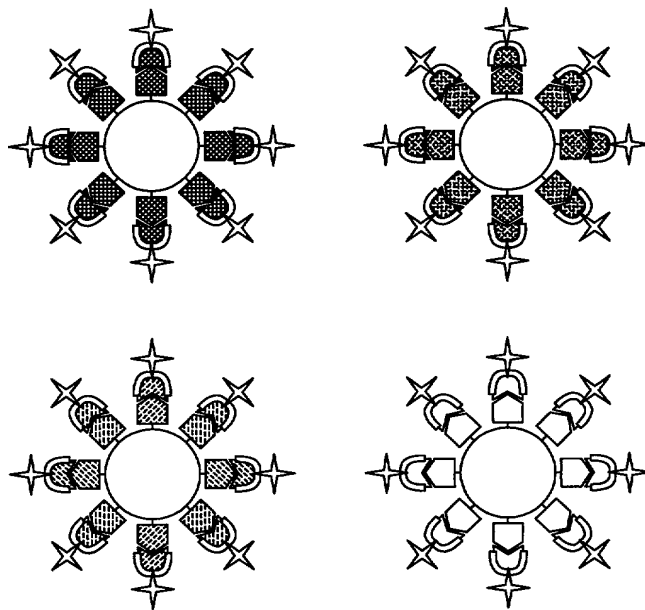


FIG. 41D

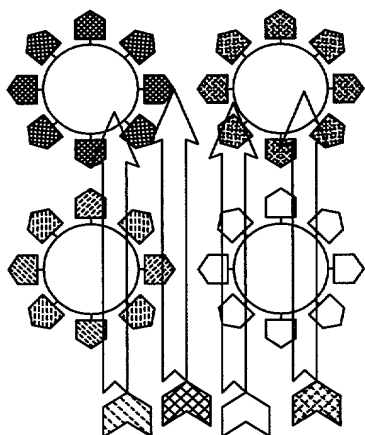


FIG. 41A

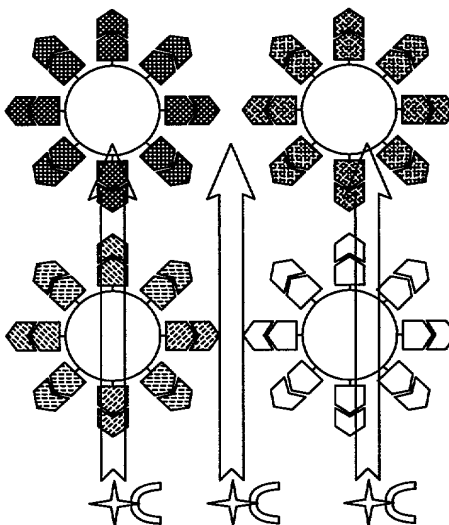


FIG. 41C

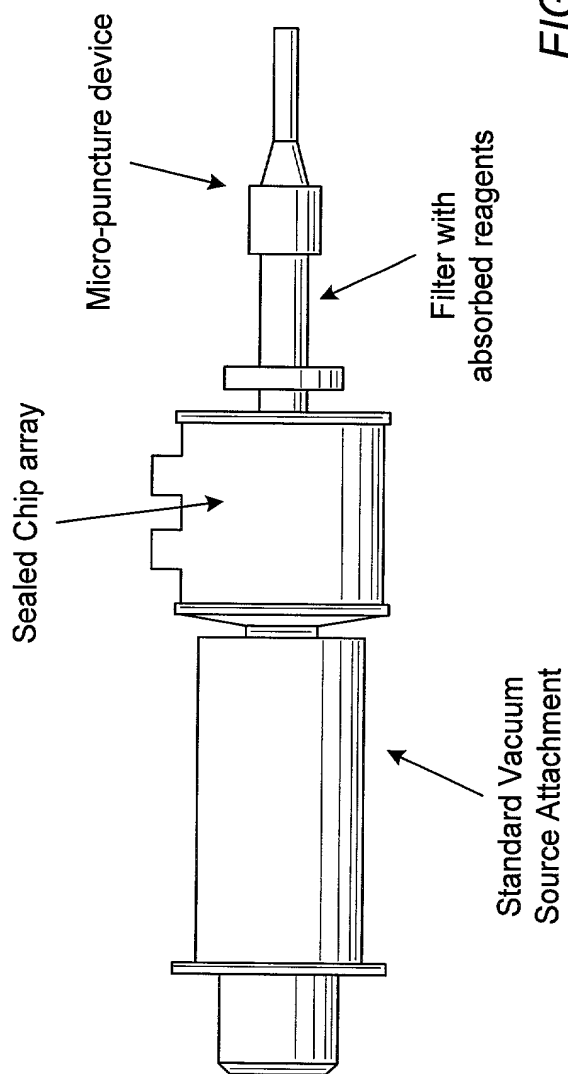
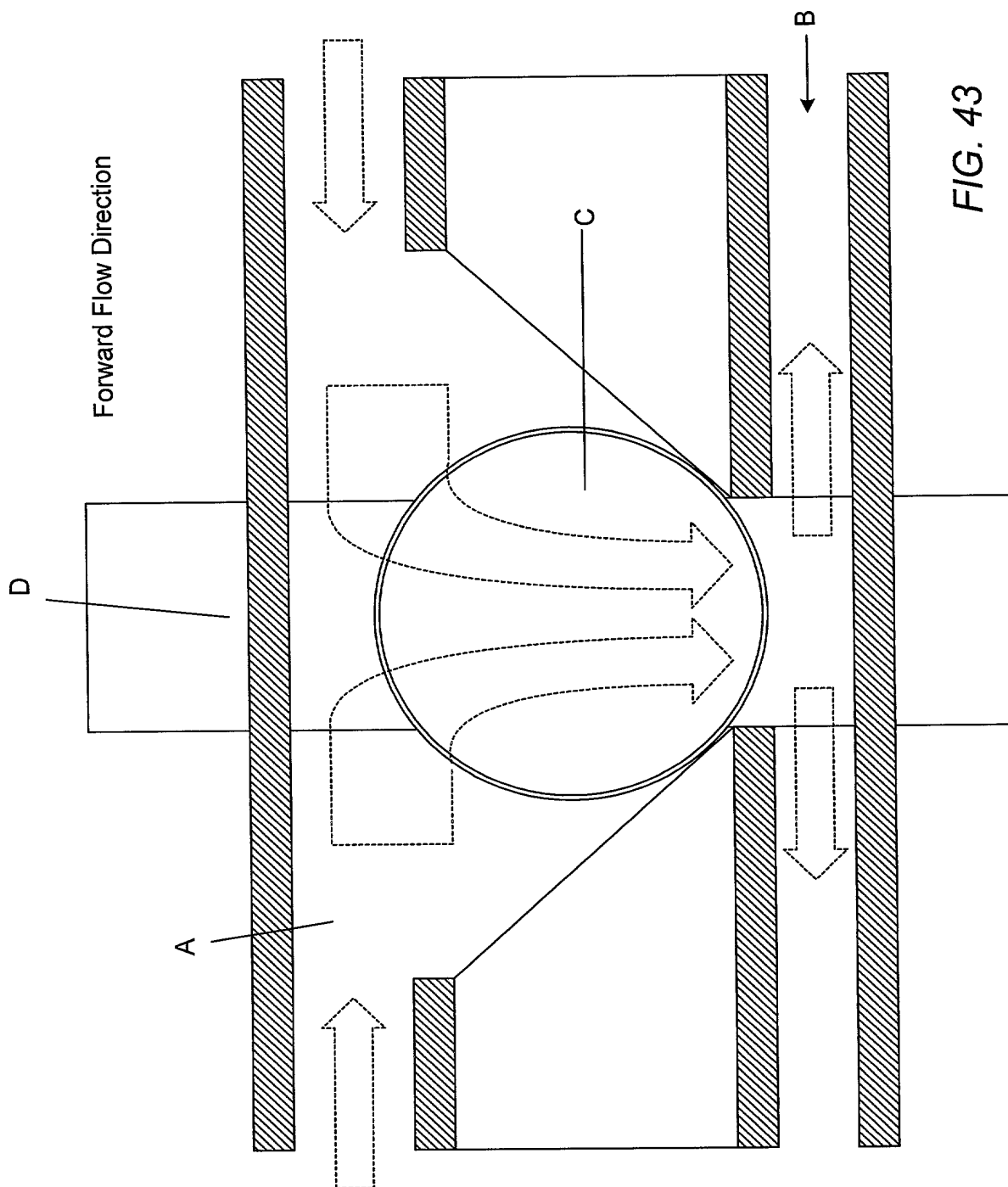
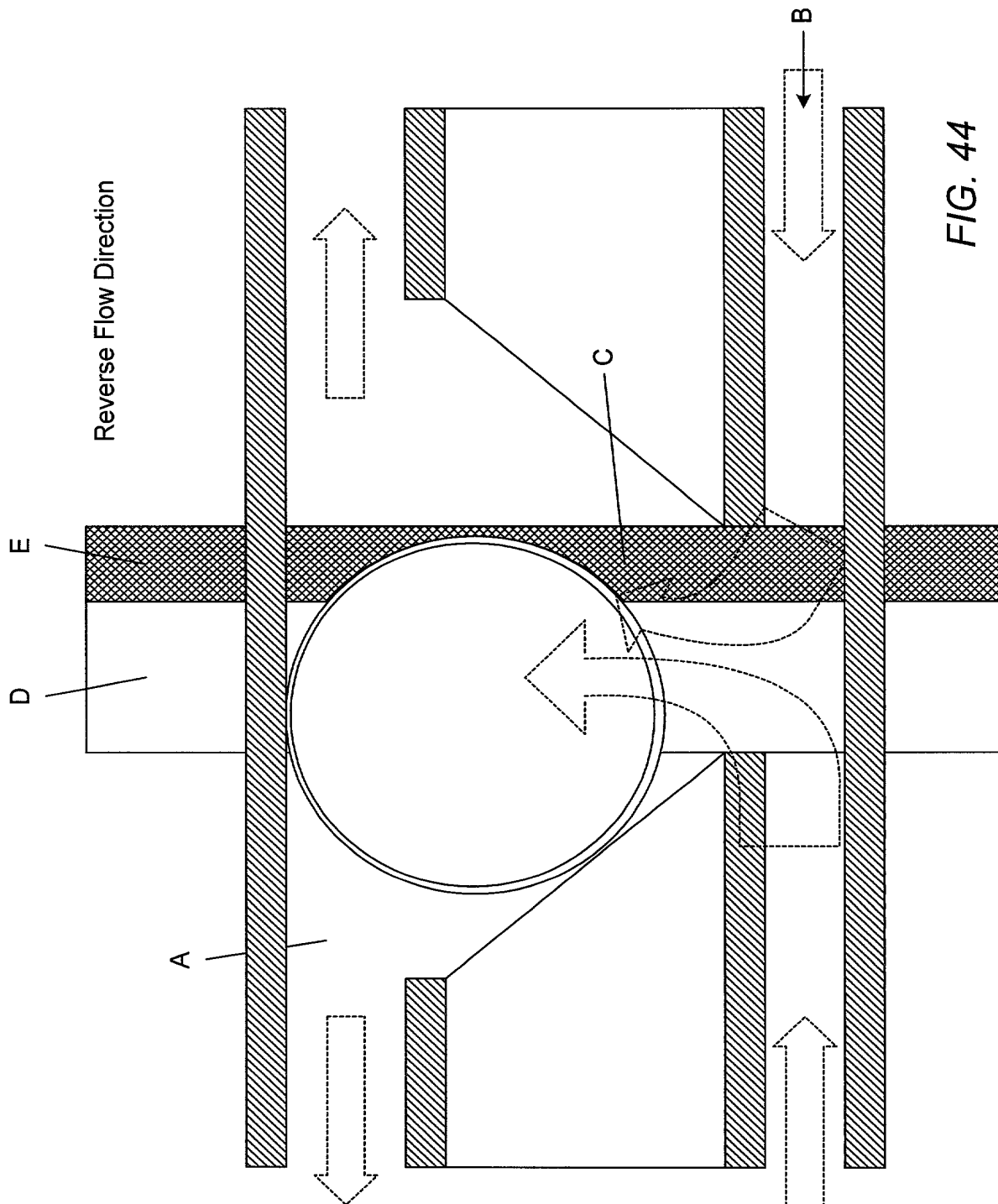


FIG. 42





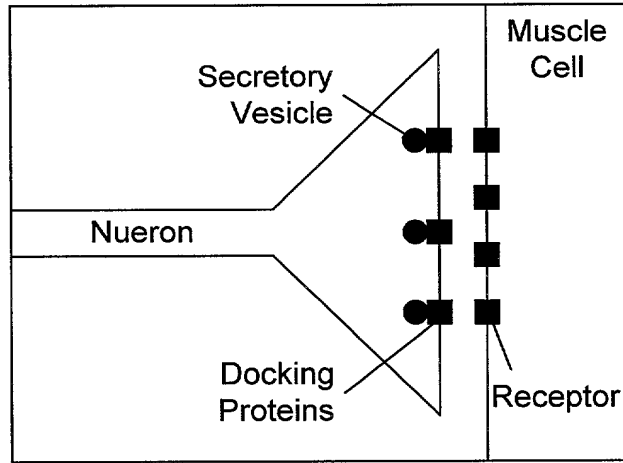


FIG. 45A

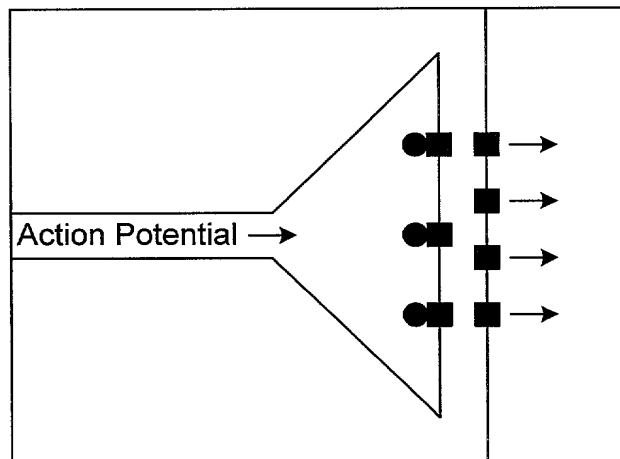


FIG. 45B

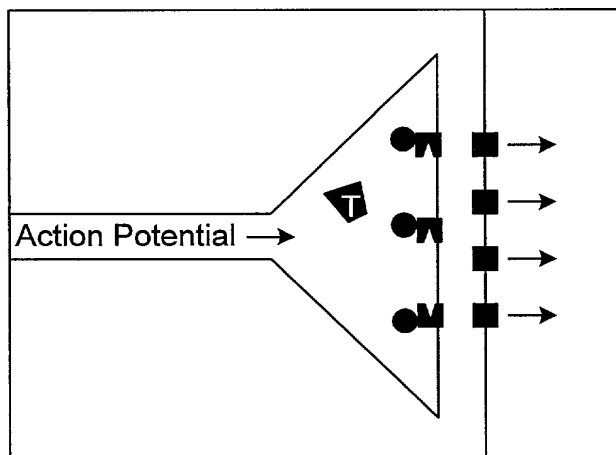


FIG. 45C

2025/20/00822/001

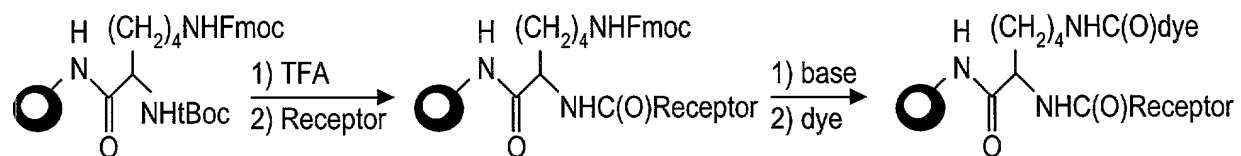
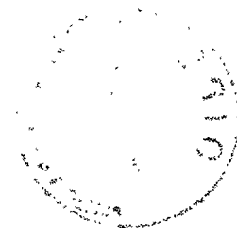


FIG. 45D

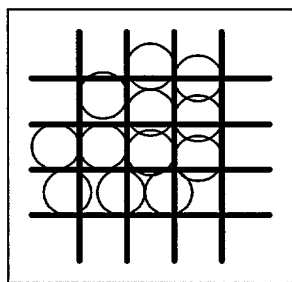


FIG. 46A

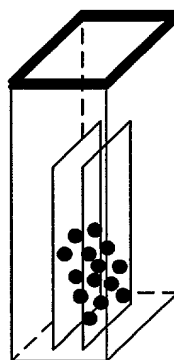


FIG. 46B

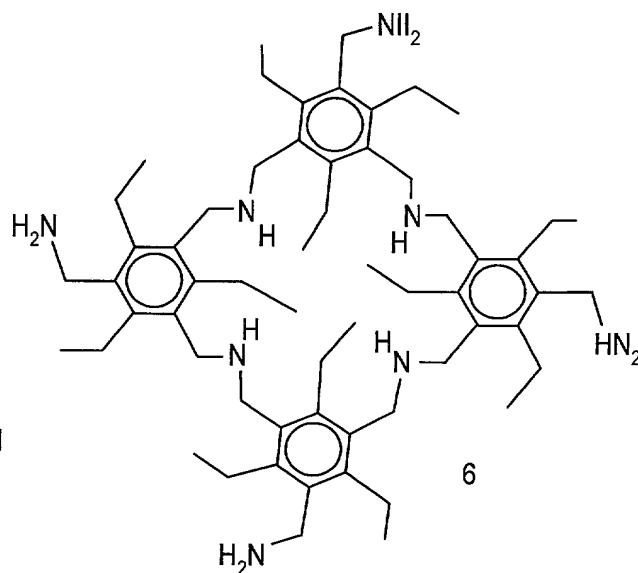
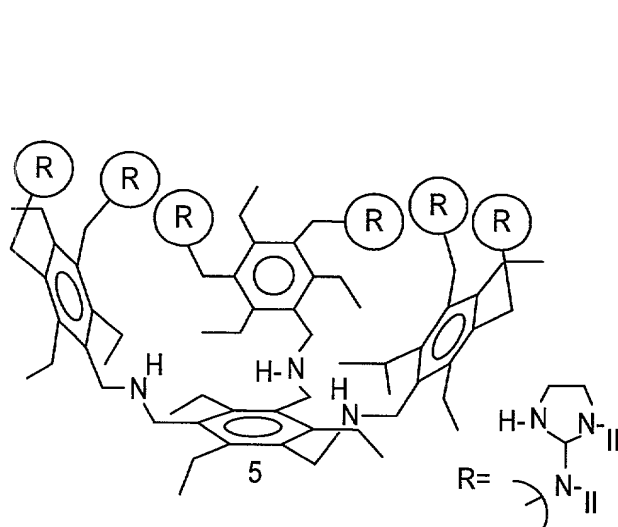
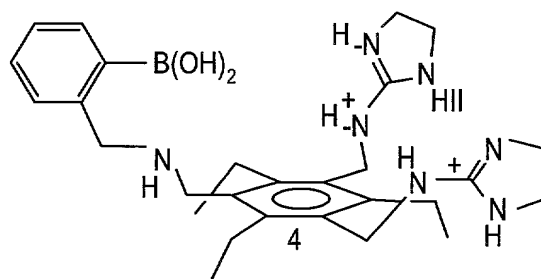
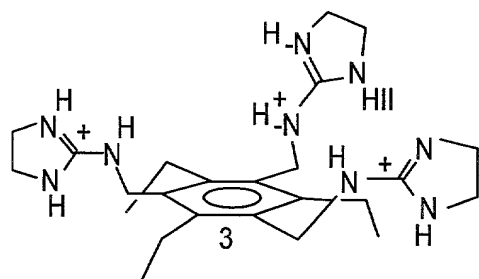


FIG. 47

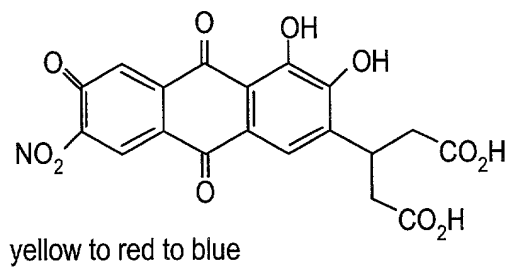
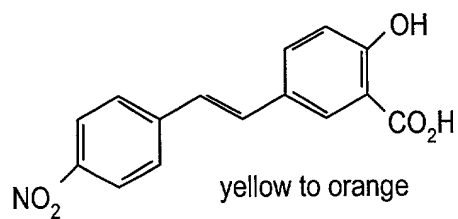
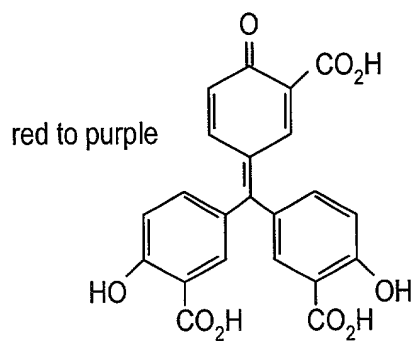
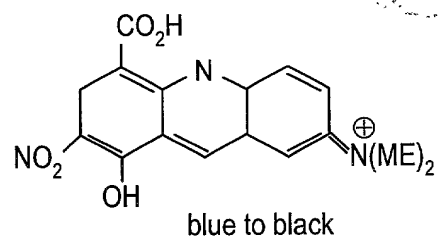
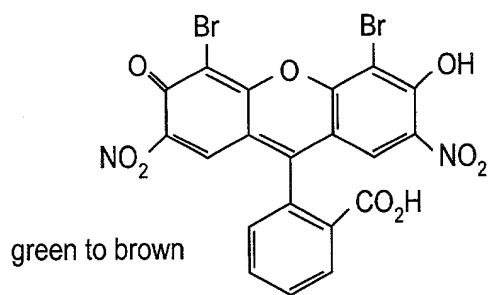
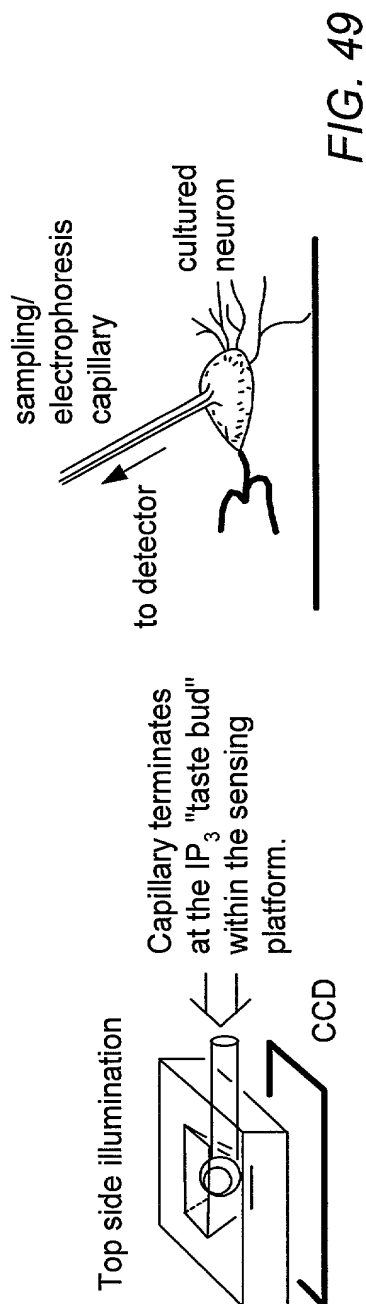
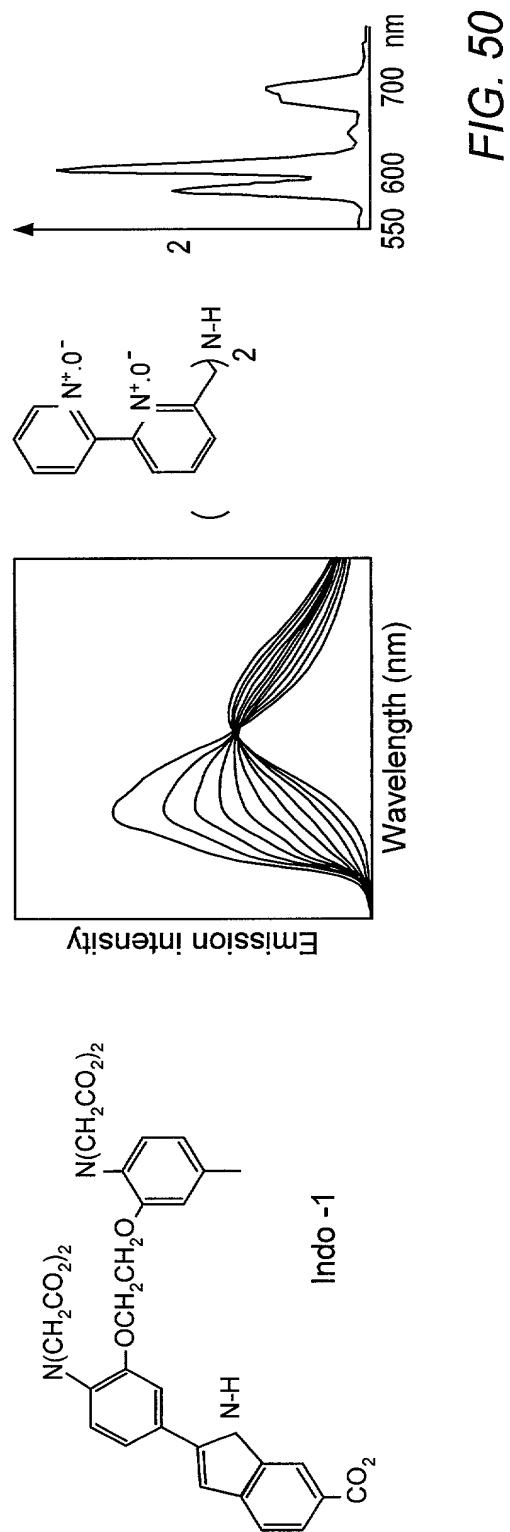


FIG. 48



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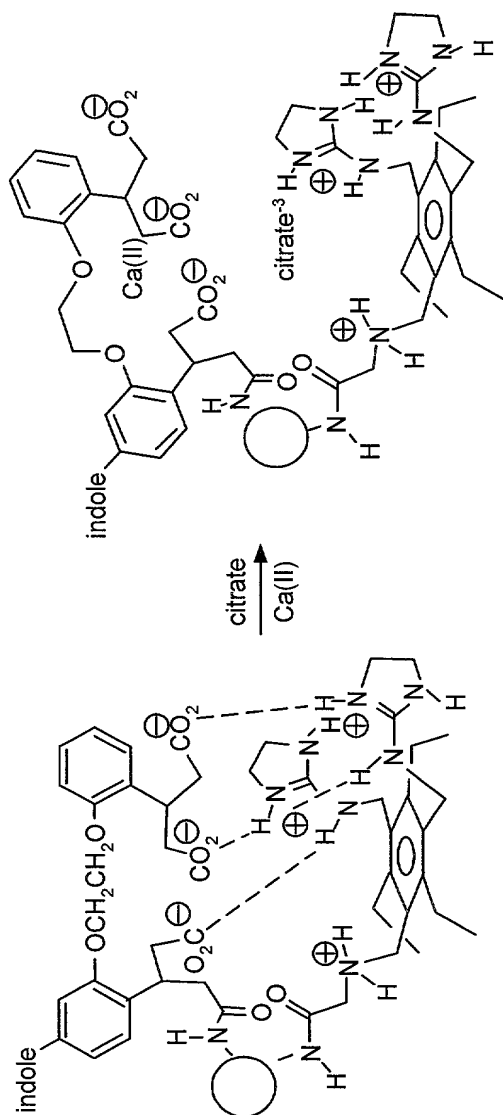


FIG. 51

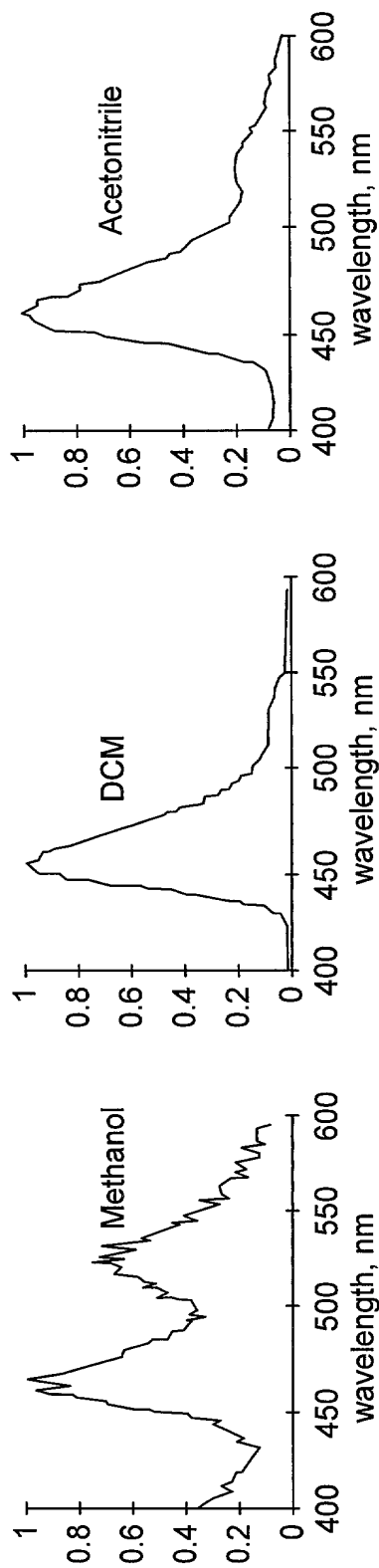
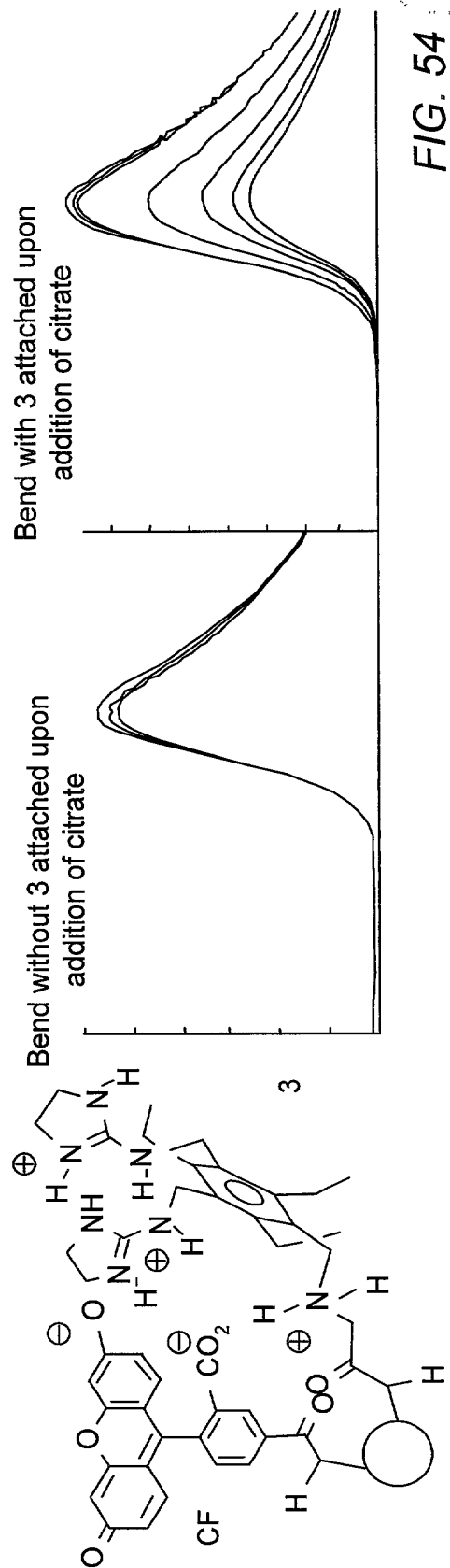
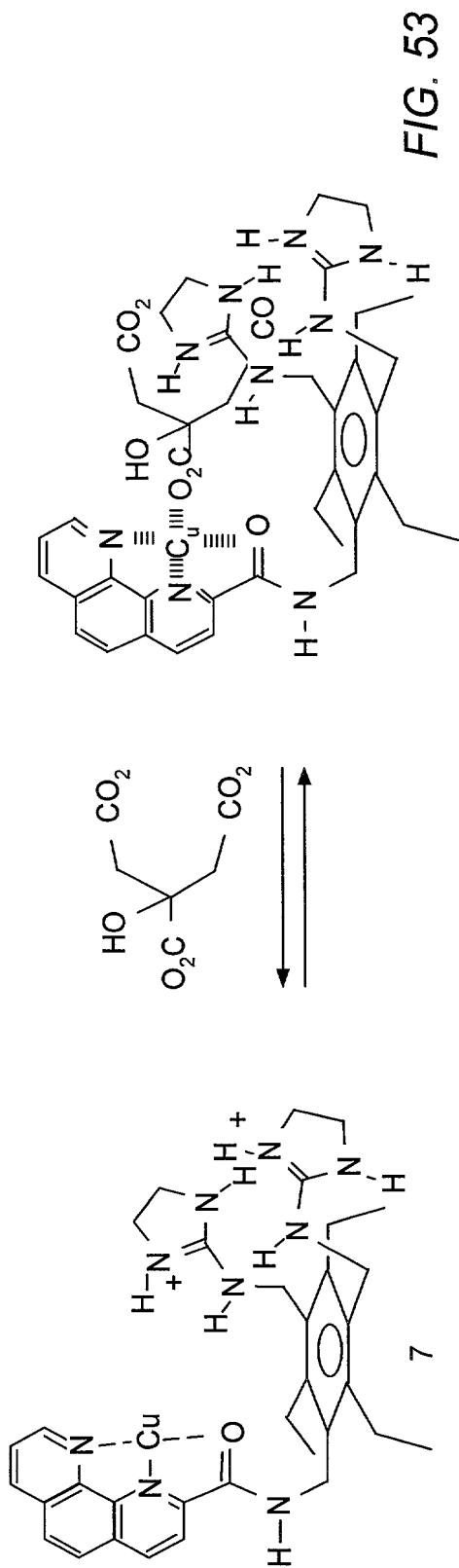


FIG. 52



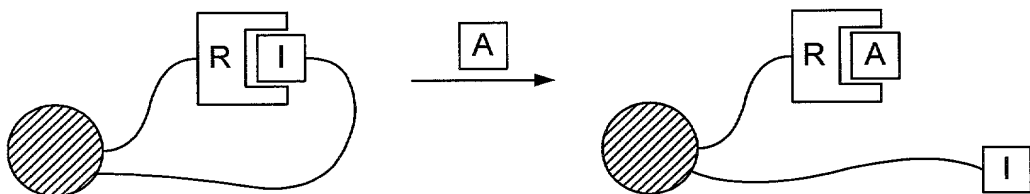
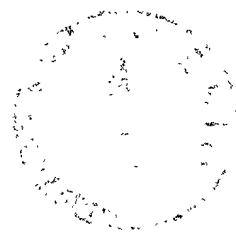


FIG. 55A

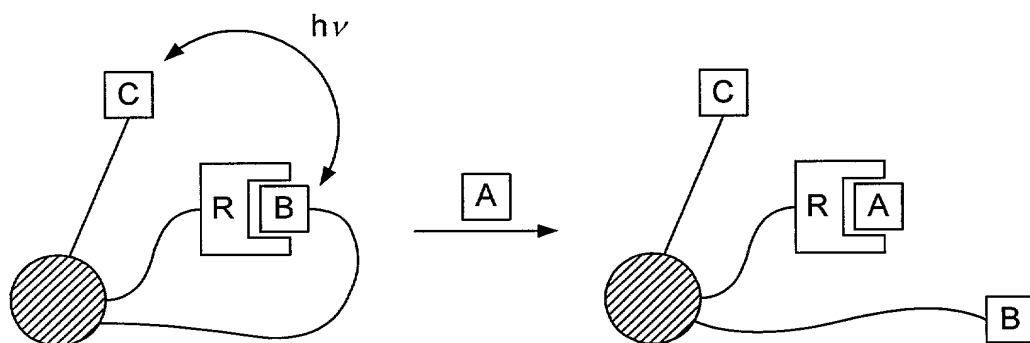


FIG. 55B

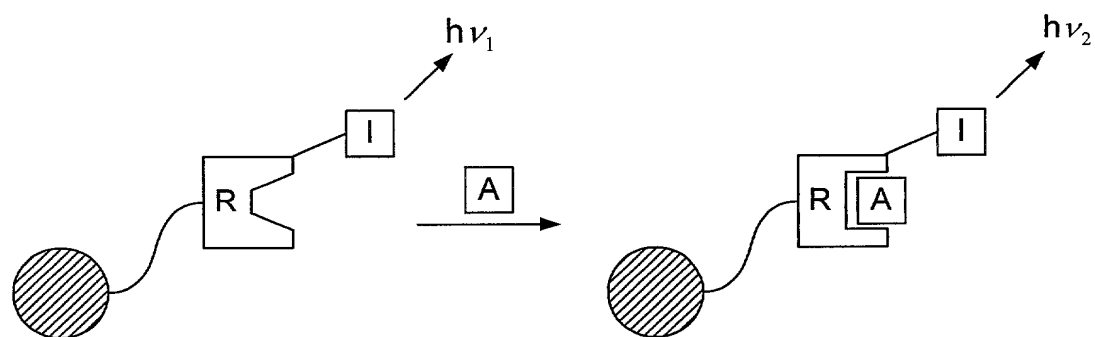


FIG. 55C

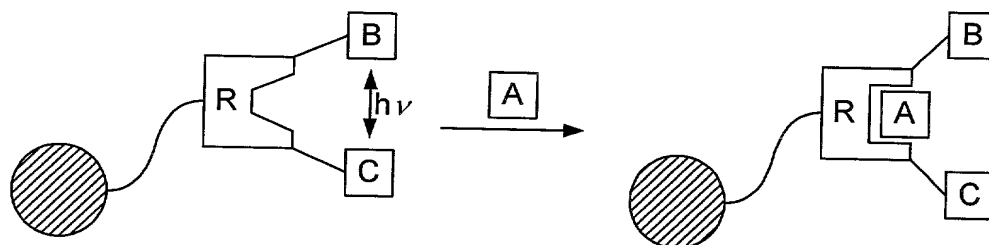


FIG. 55D

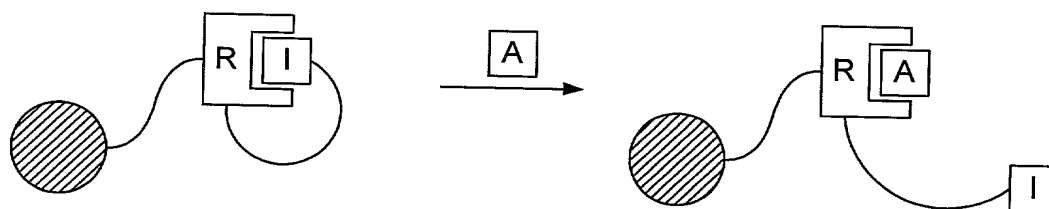


FIG. 55E

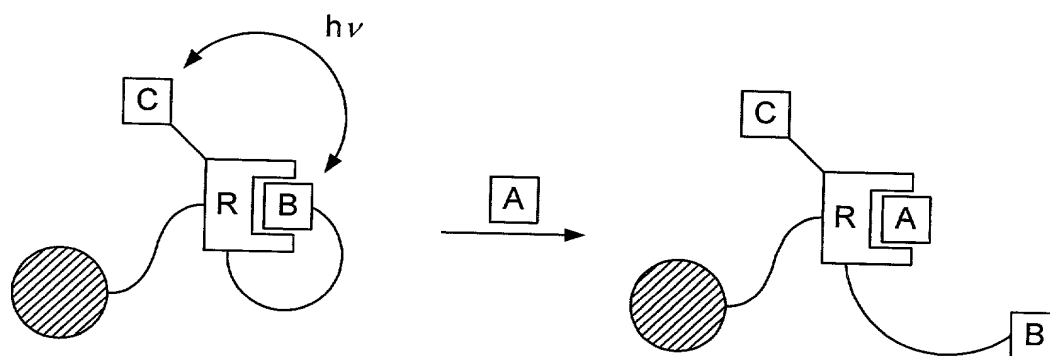
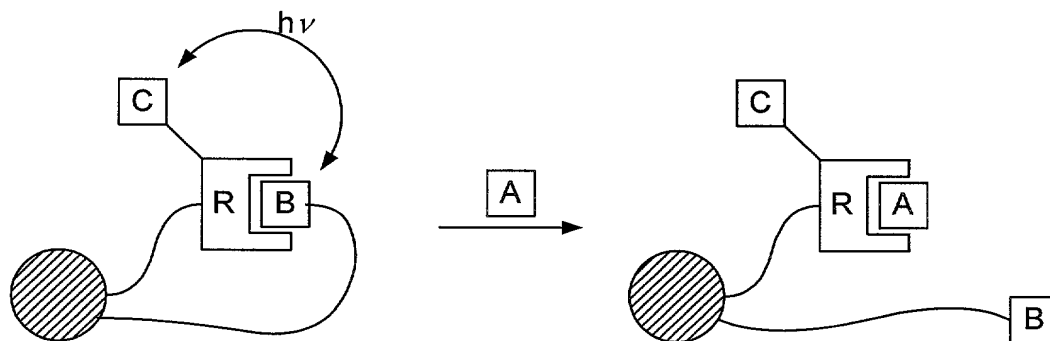
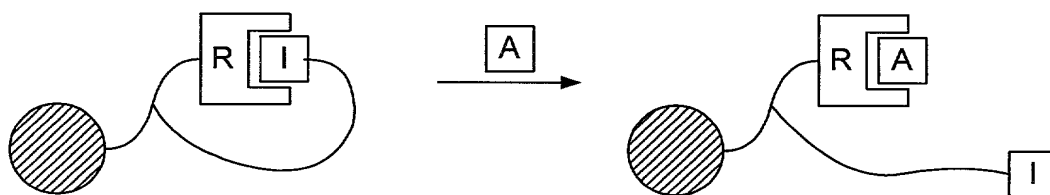


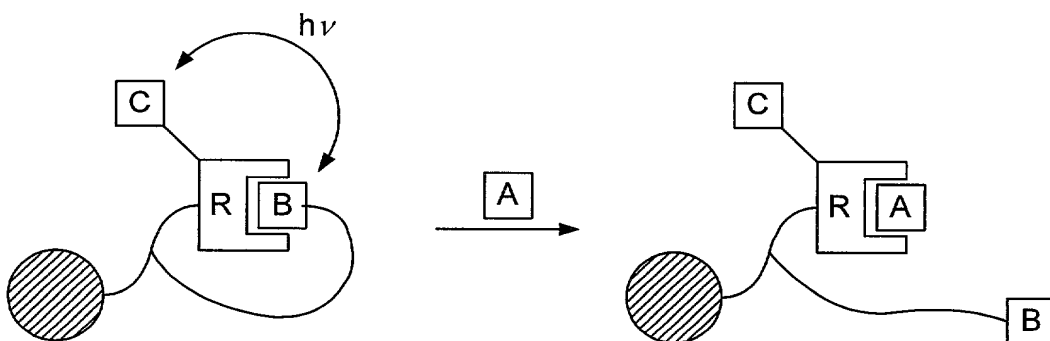
FIG. 55F



**FIG. 55G**



**FIG. 55H**



**FIG. 55I**

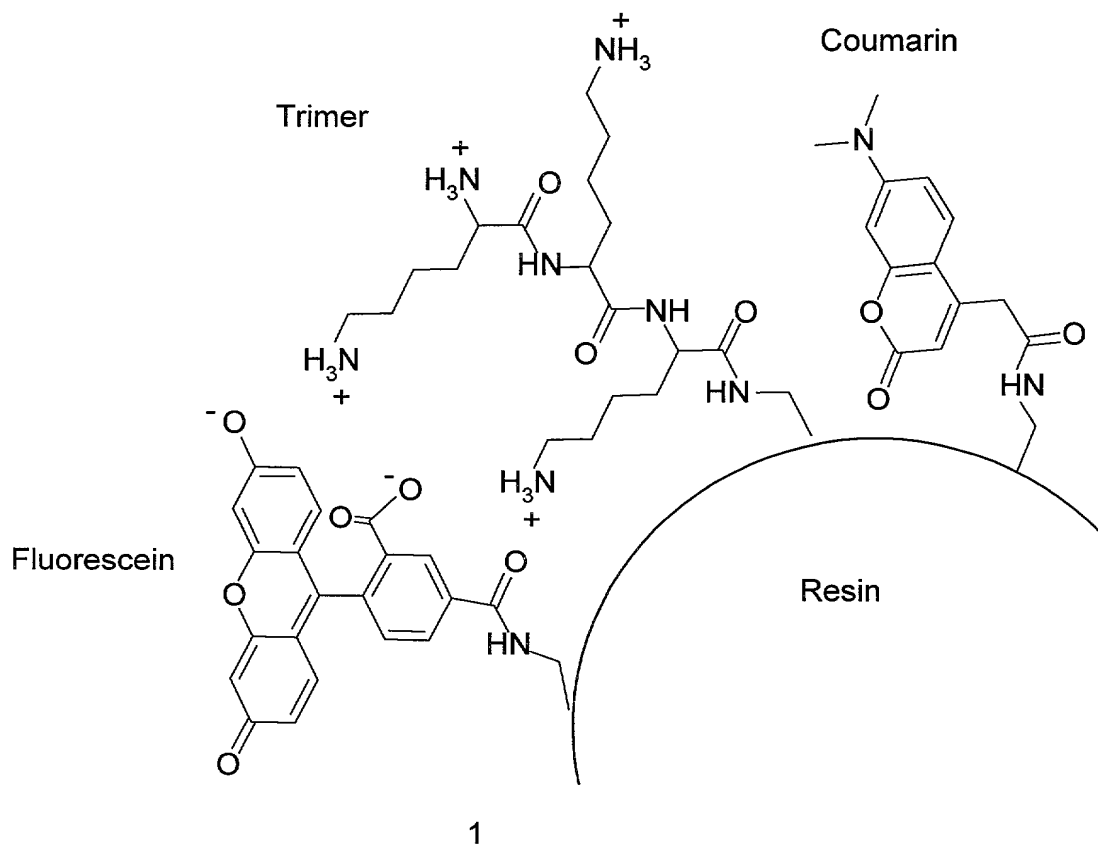


FIG. 56

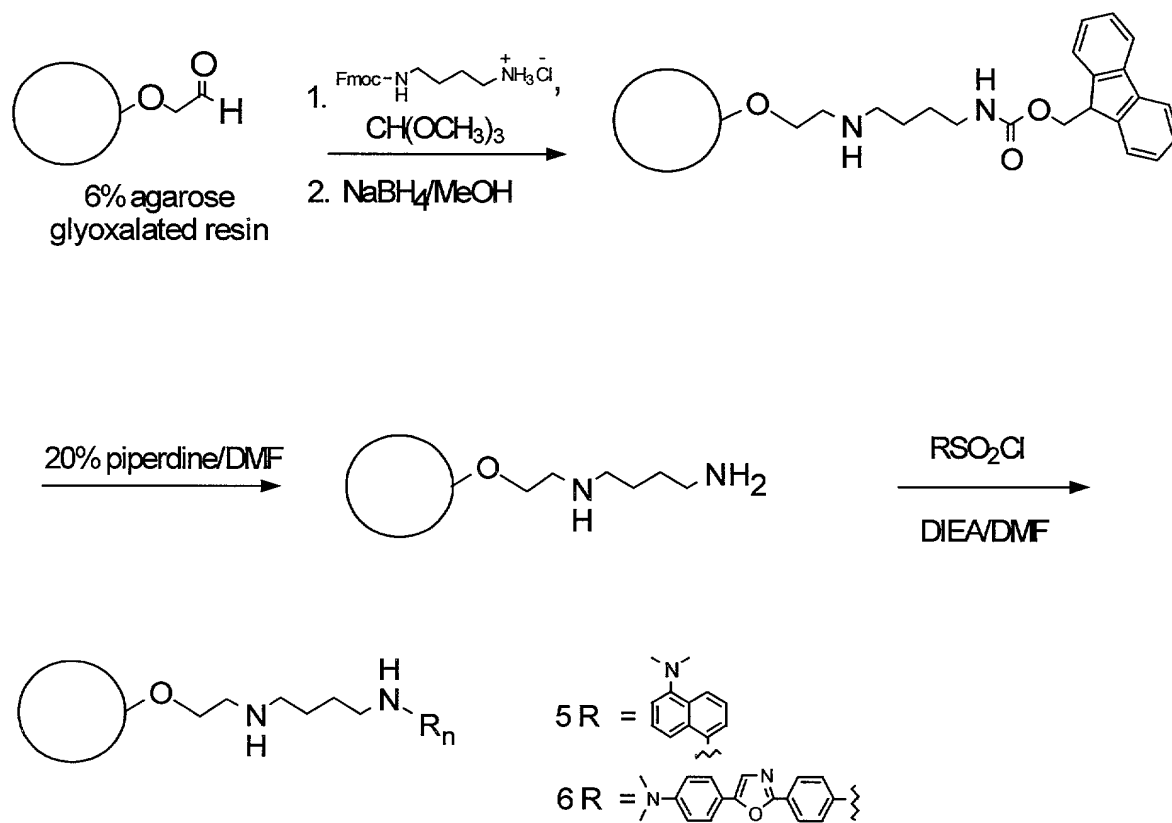


FIG. 57

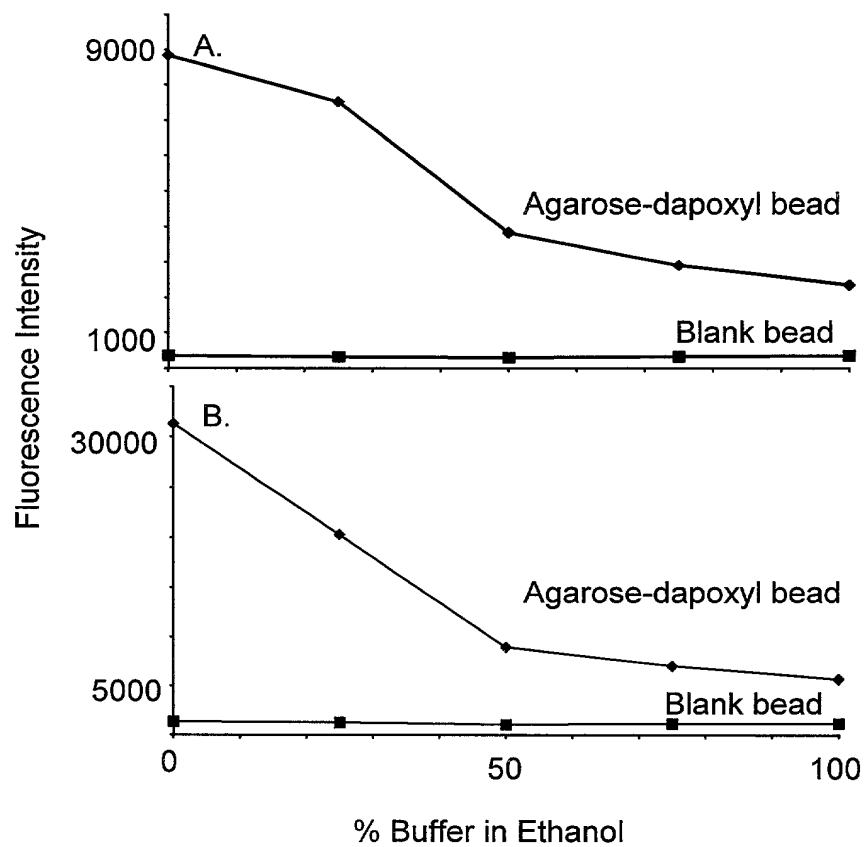
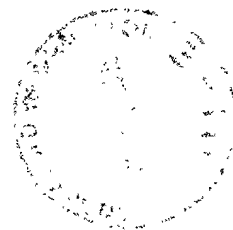


FIG. 58

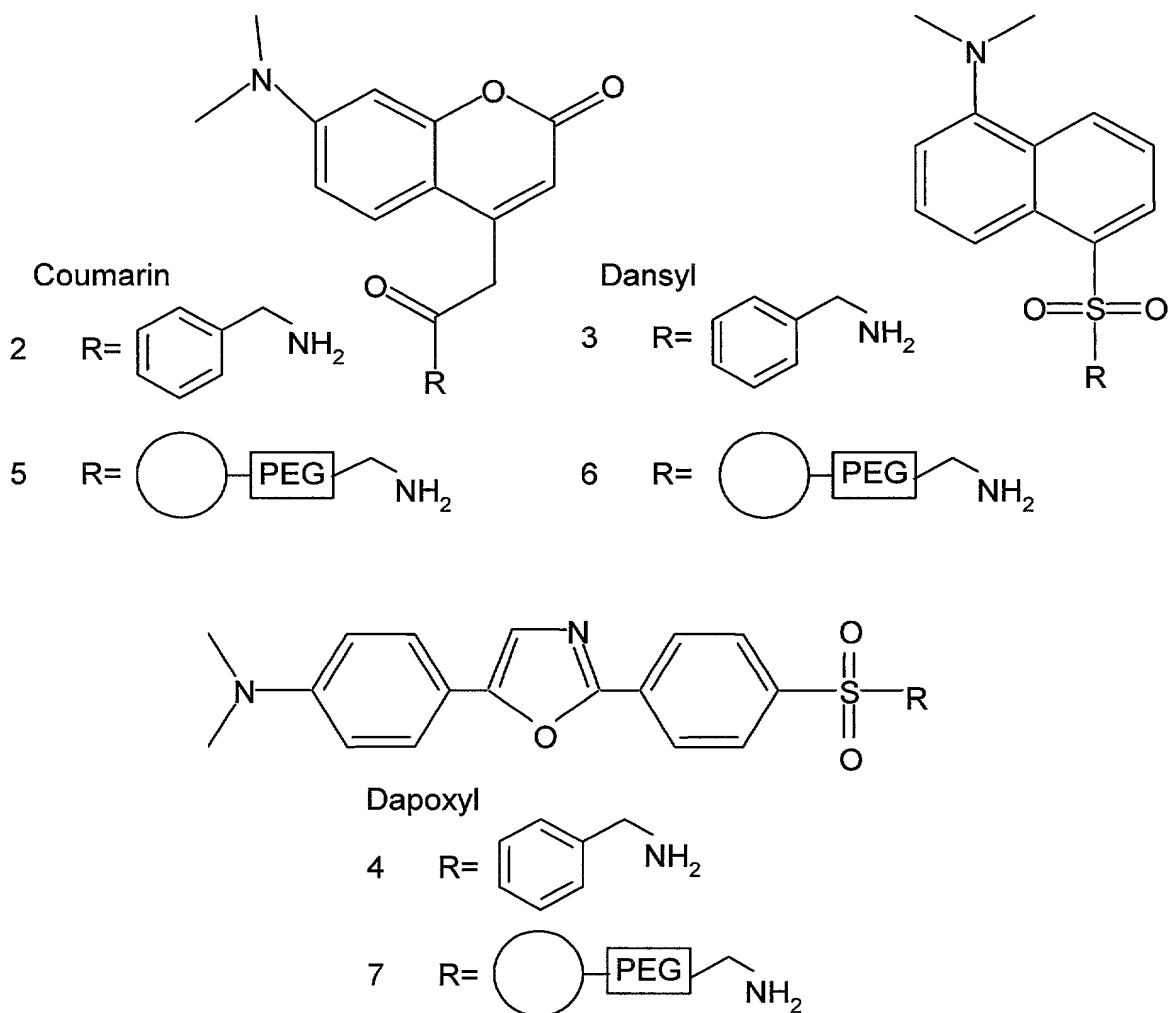
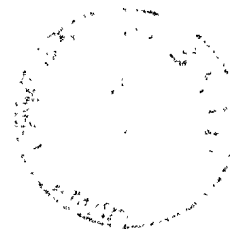


FIG. 59

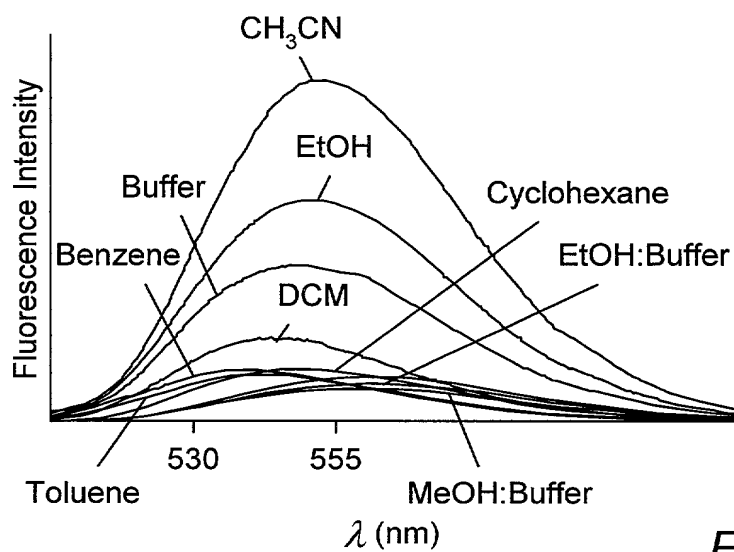
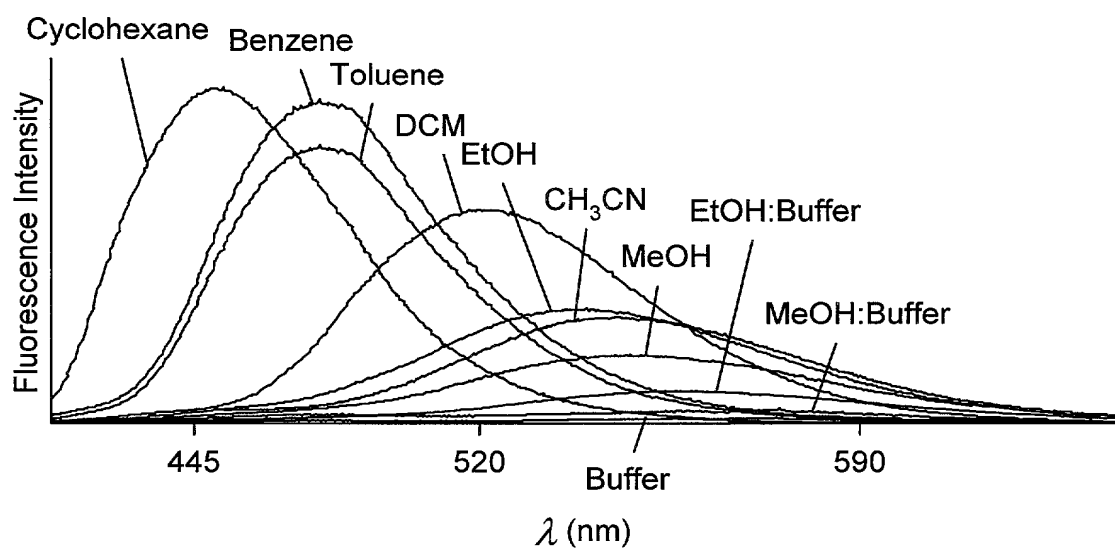
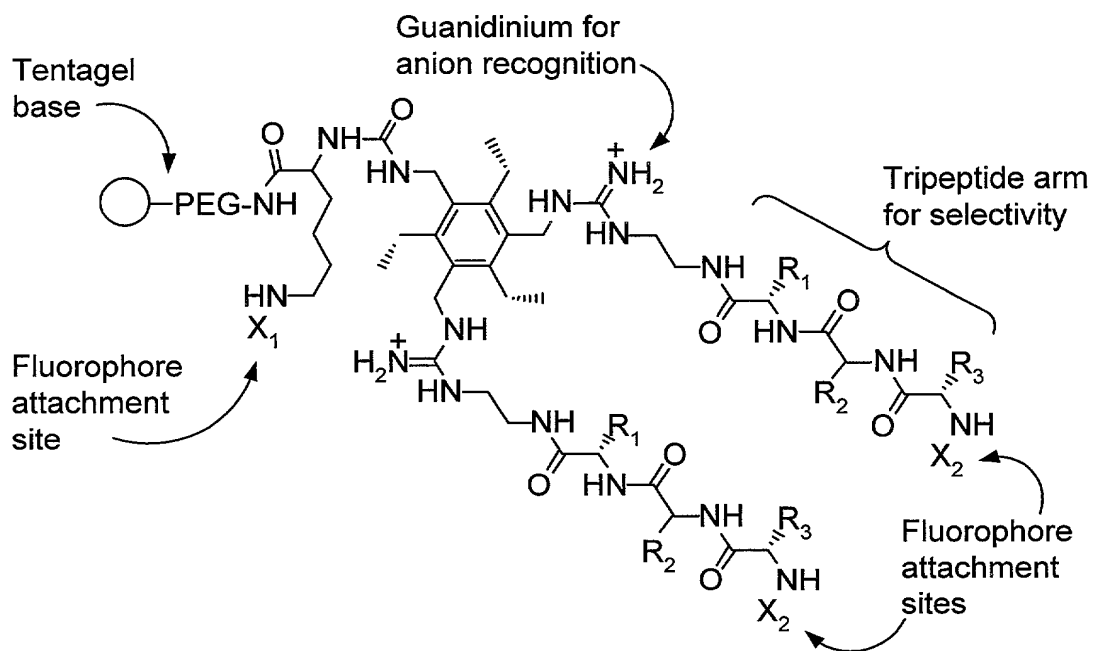
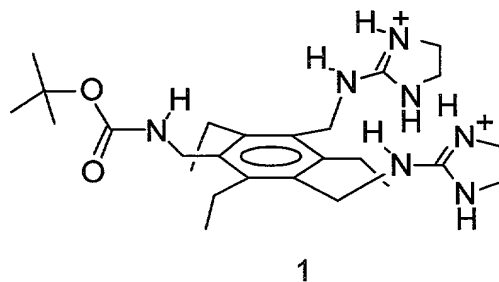


FIG. 60



2:  $X_1 = X_2 = H$

3:  $X_1 =$

$X_2 =$

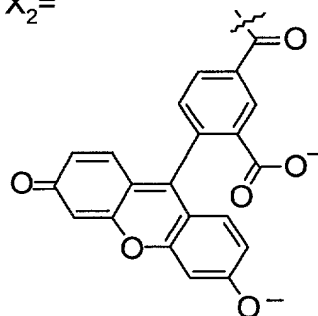
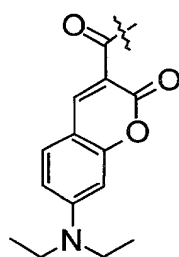


FIG. 61

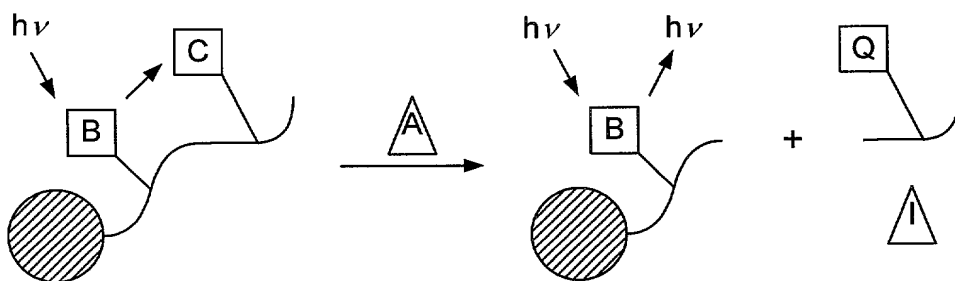


FIG. 62A

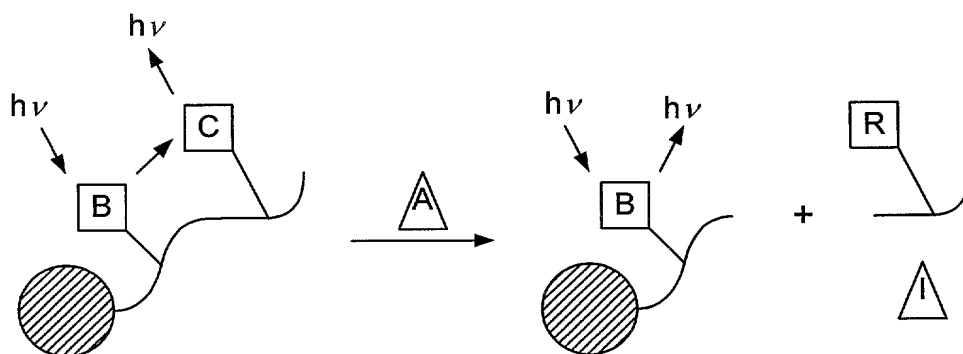


FIG. 62B

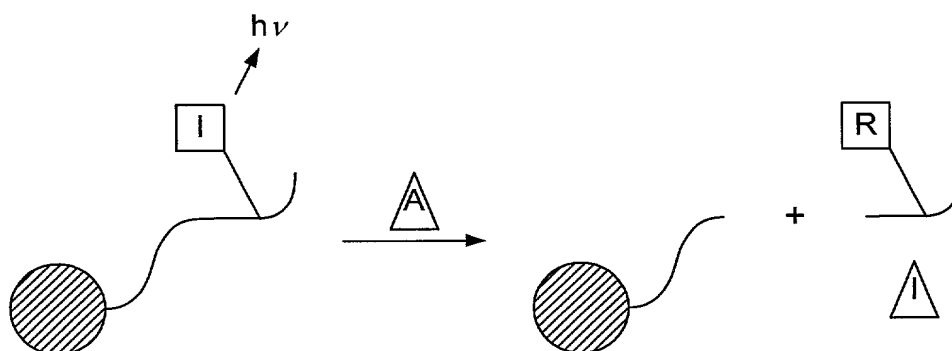


FIG. 62C

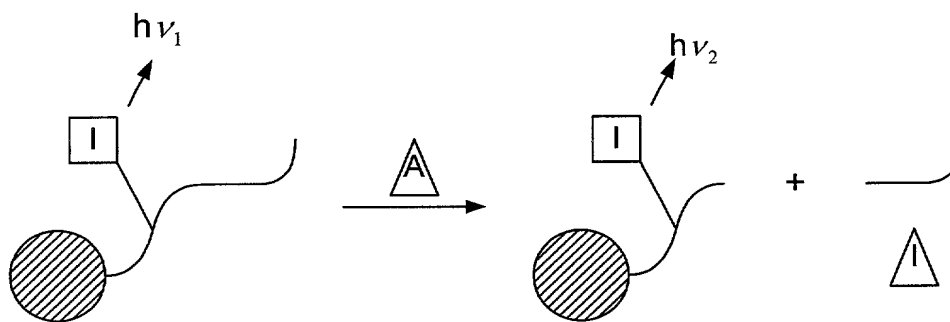


FIG. 62D

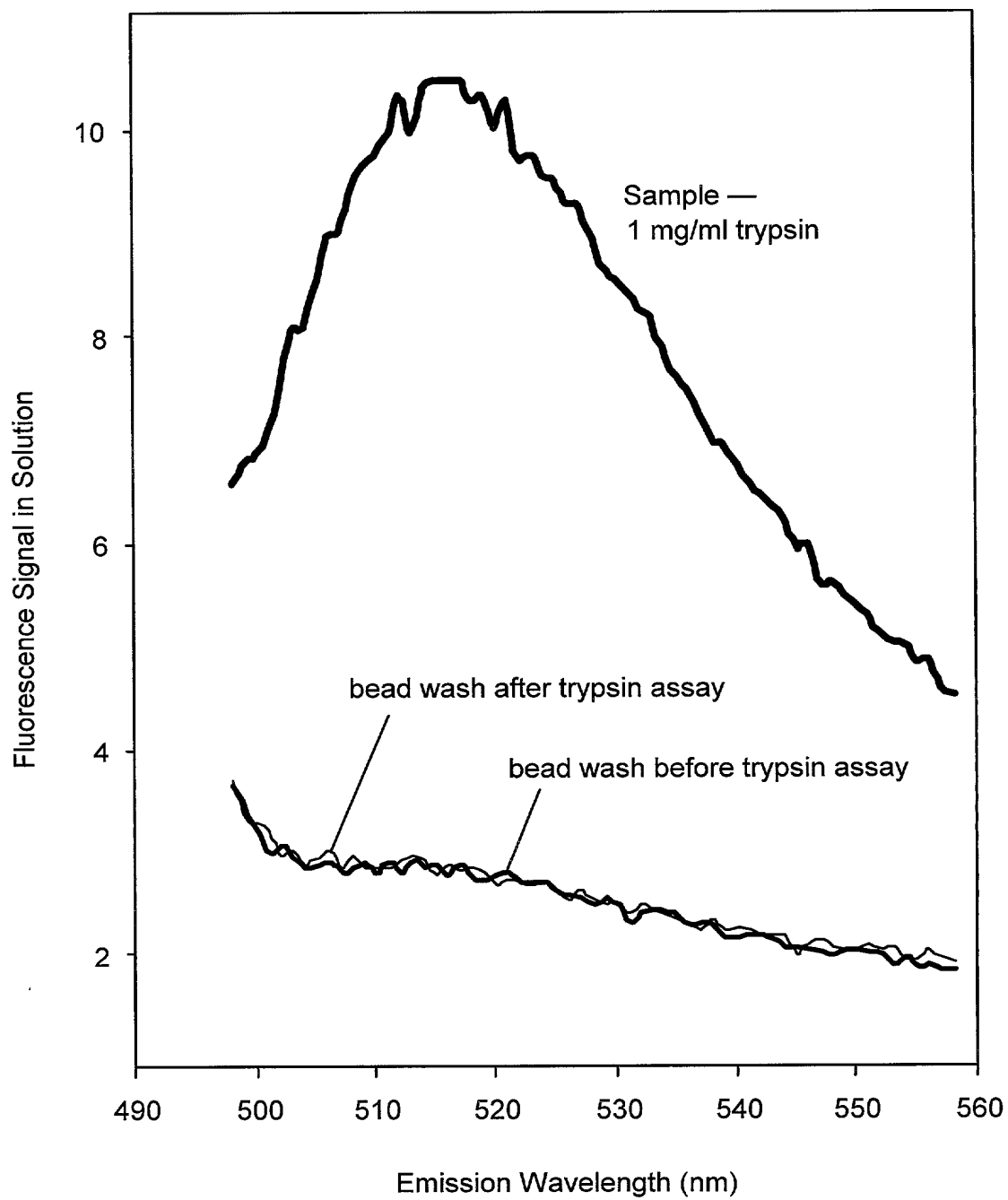


FIG. 63

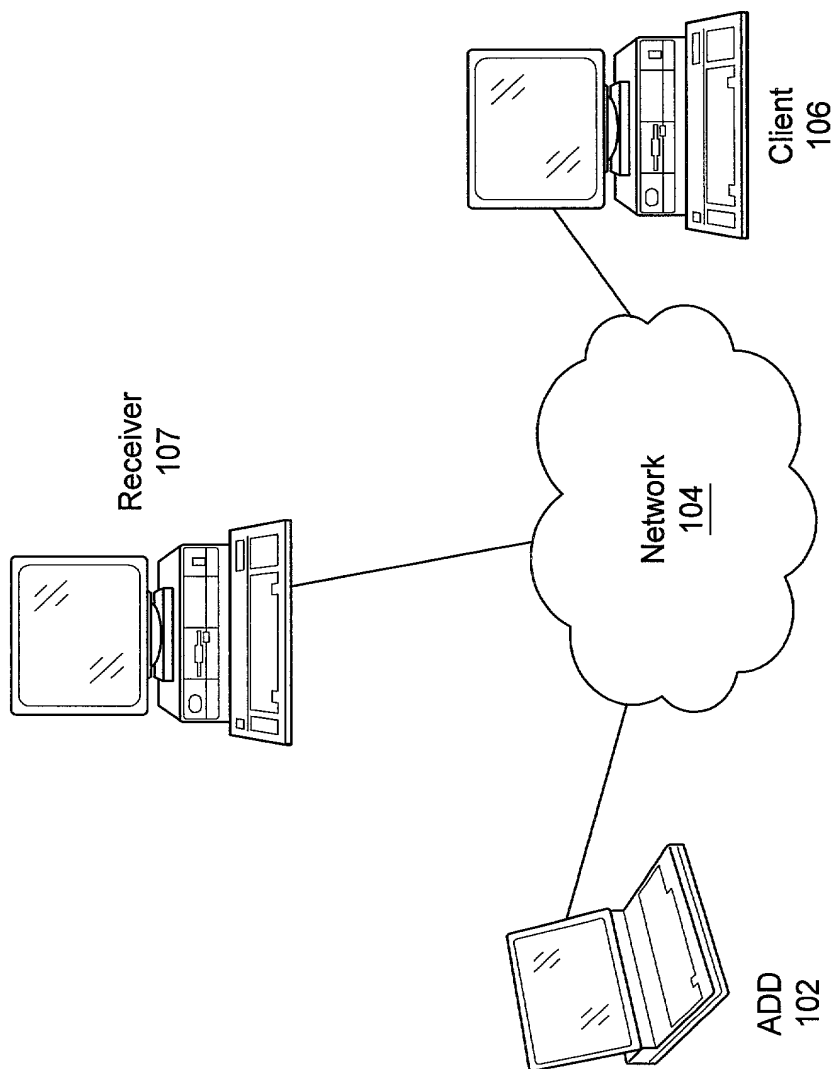
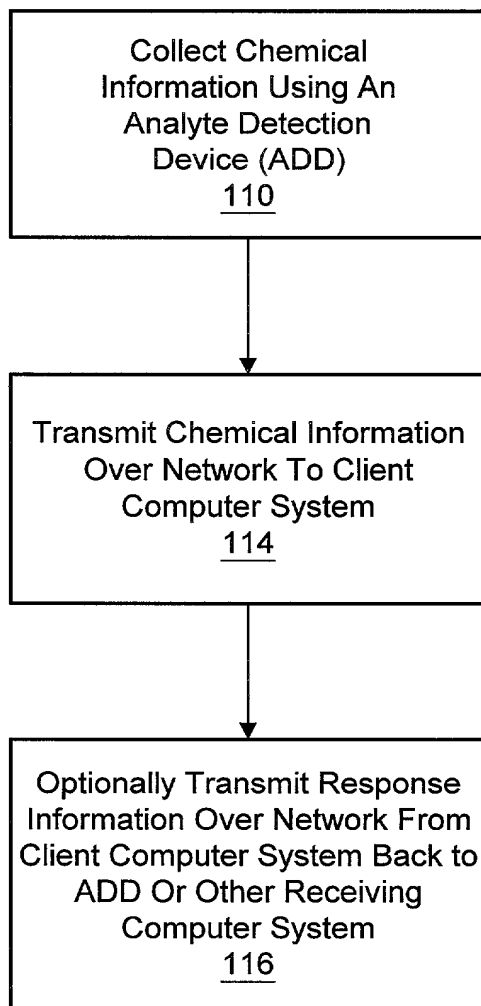


FIG. 64

*FIG. 65*

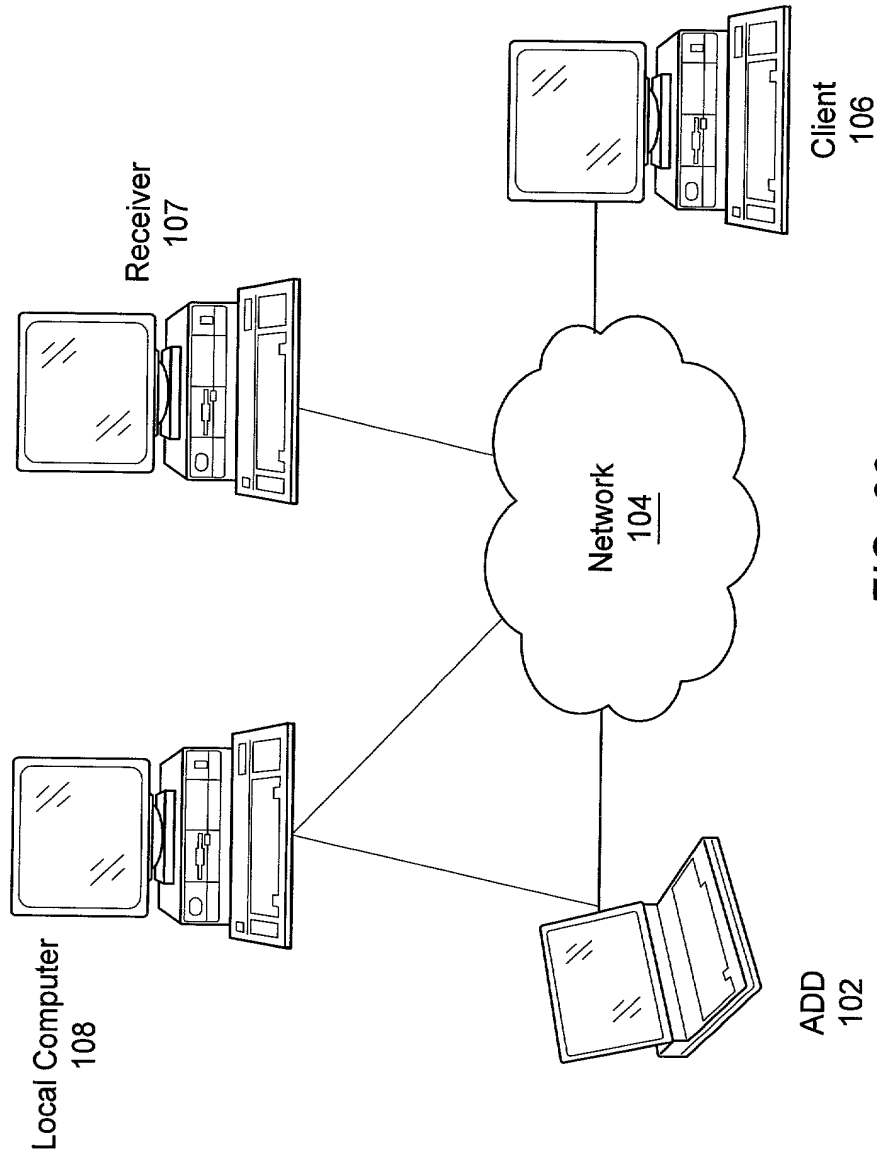
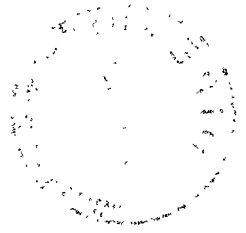


FIG. 66

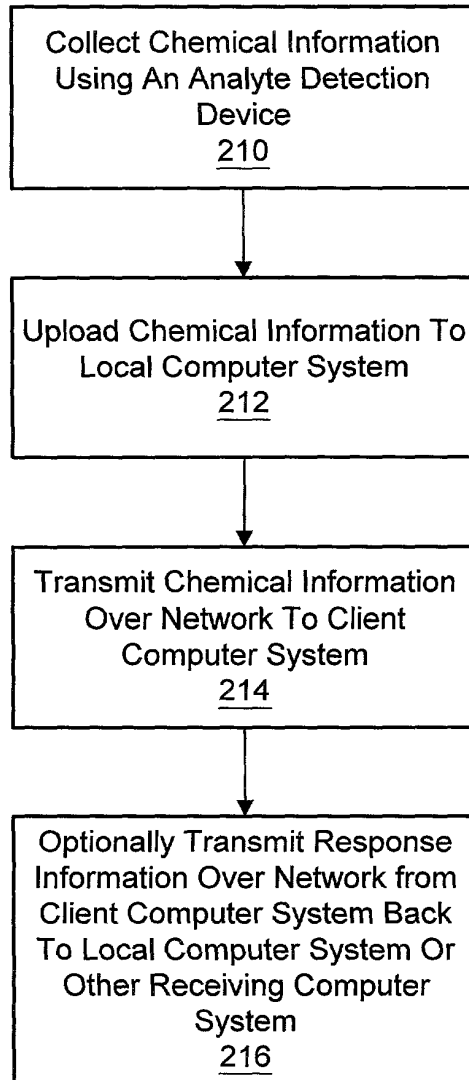


FIG. 67

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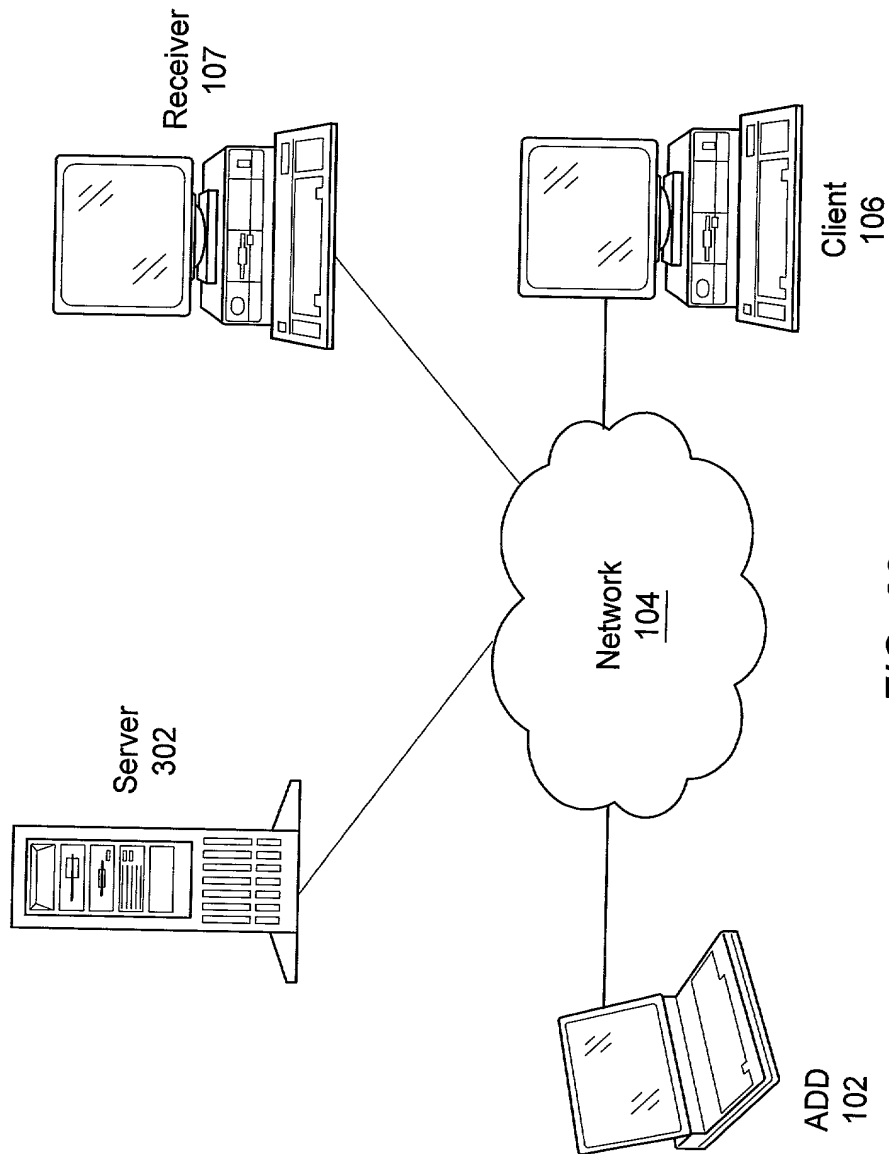
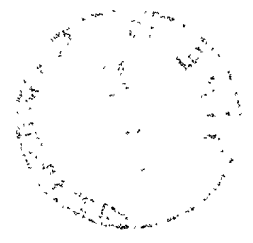


FIG. 68

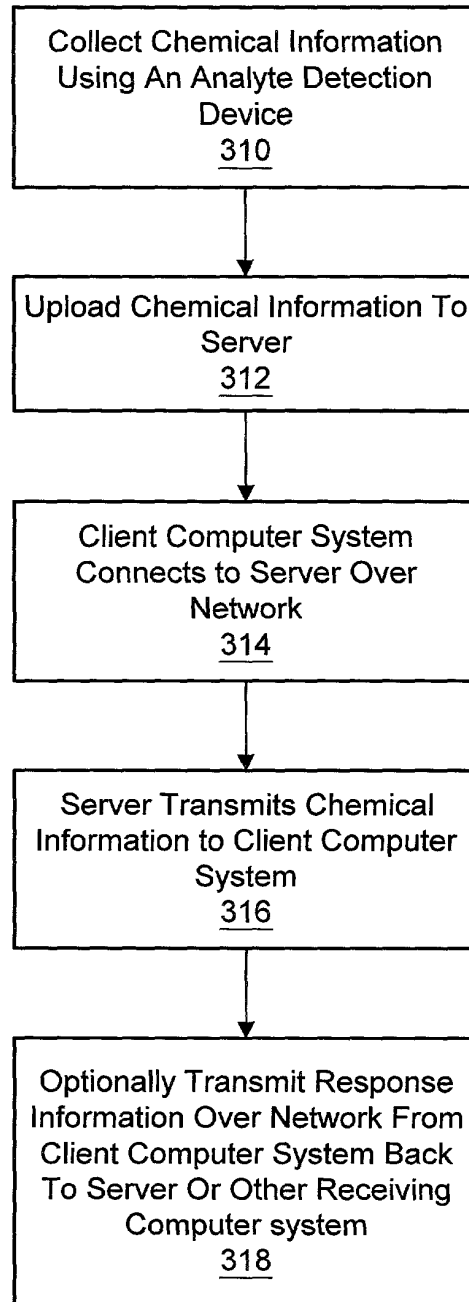
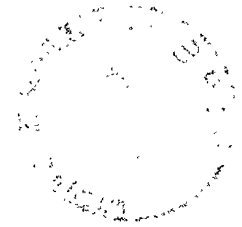


FIG. 69

2025-07-10 10:00:00

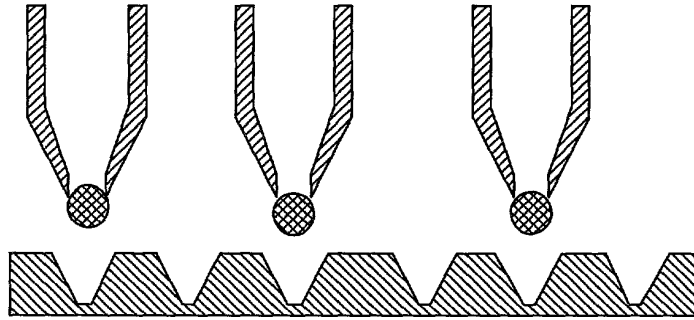


FIG. 70A

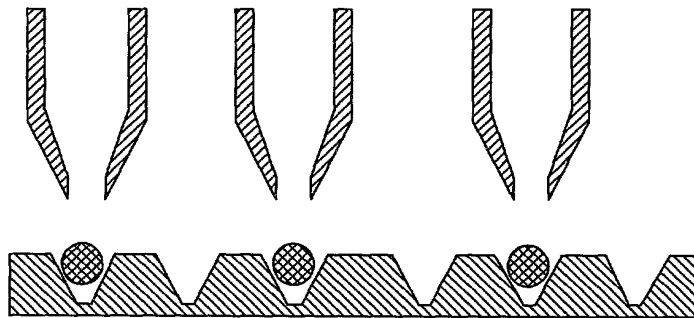


FIG. 70B

10072800-071802

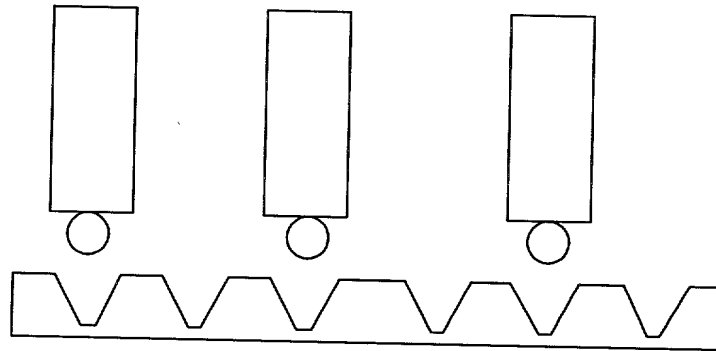
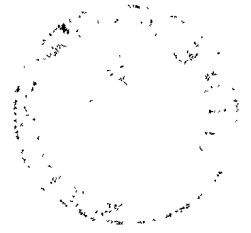


FIG. 71A

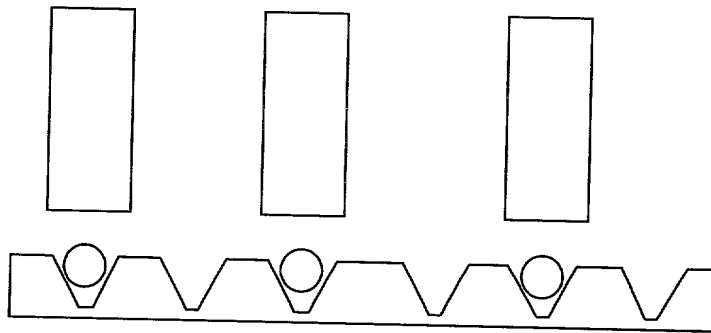


FIG. 71B

2025-07-08 10:00:00

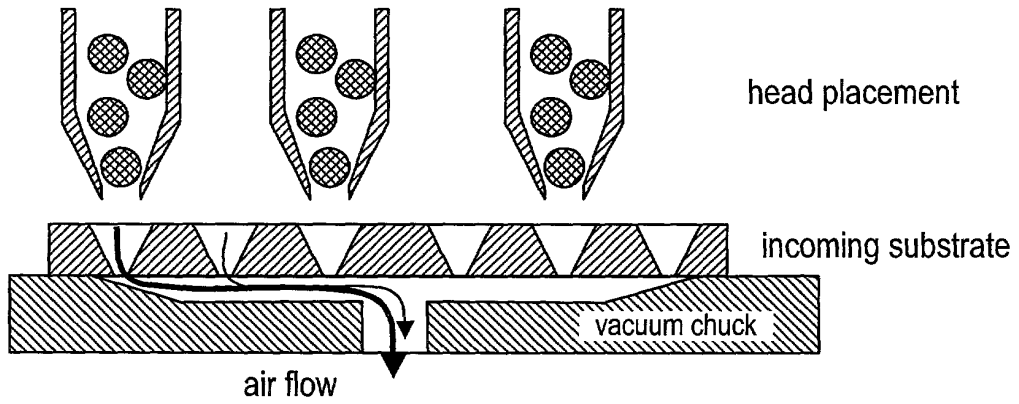


FIG. 72A

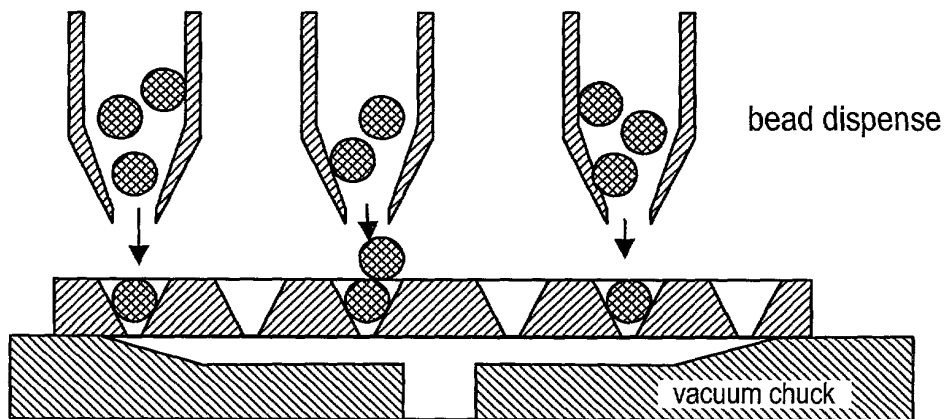


FIG. 72B

2007-07-08 10:00:00

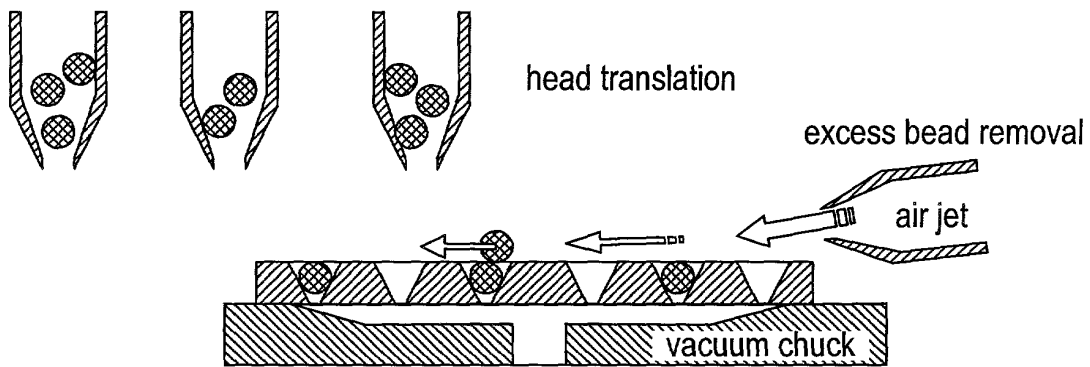


FIG. 72C

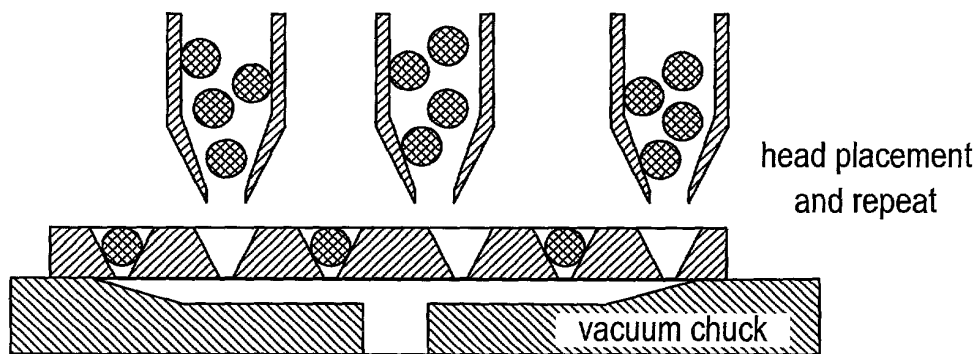


FIG. 72D

208740-0082200T

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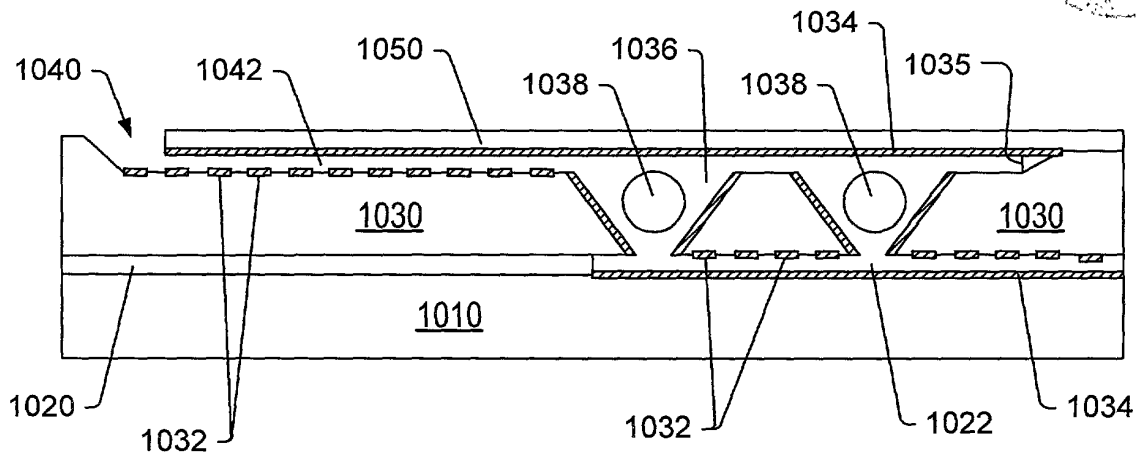


FIG. 73

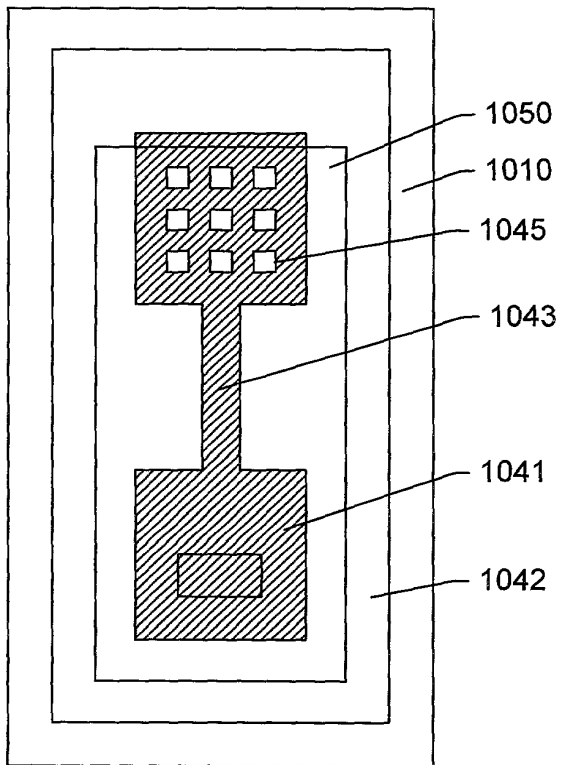


FIG. 74A

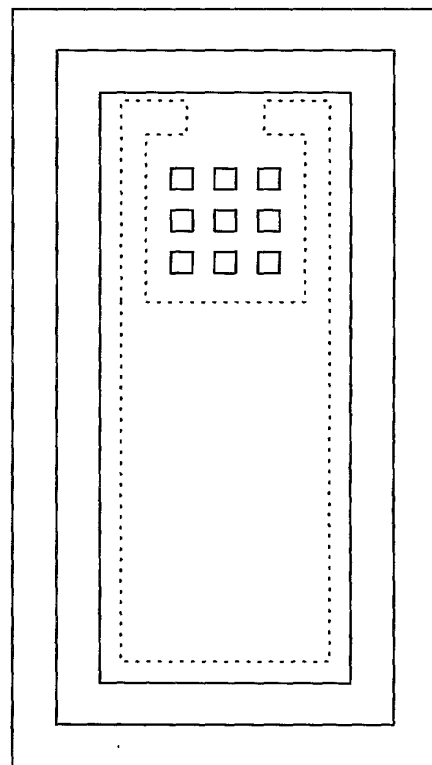


FIG. 74B

2021-01-08 09:22:00

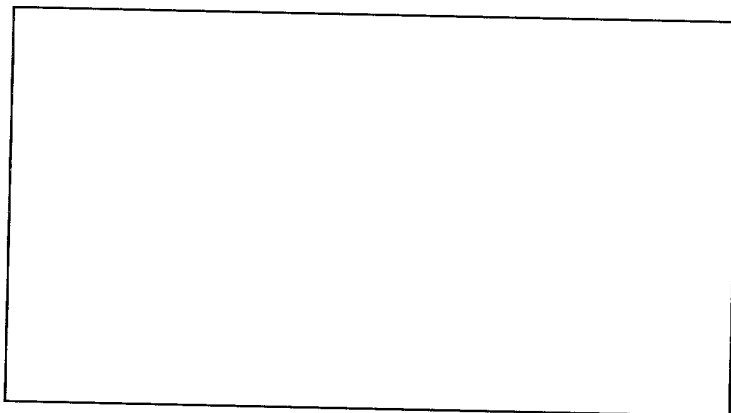
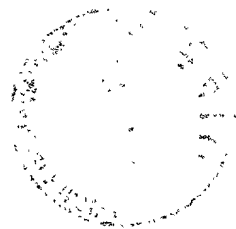


FIG. 75D

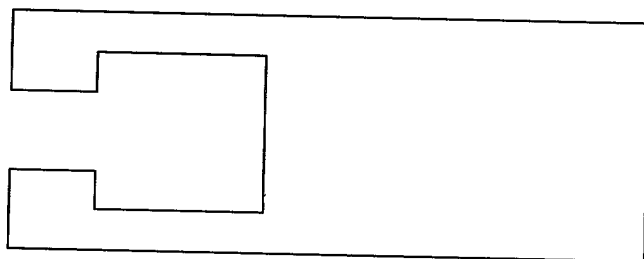


FIG. 75C

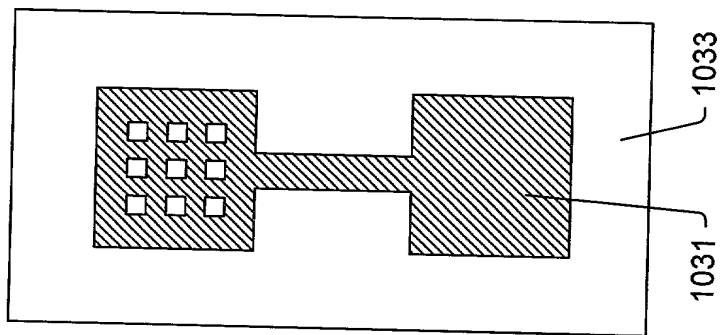


FIG. 75B

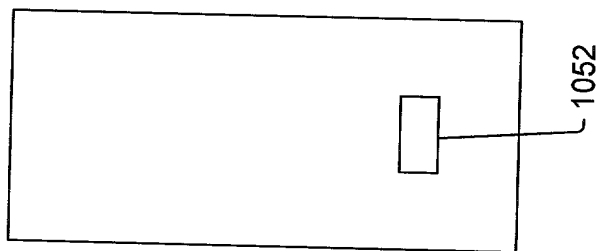


FIG. 75A

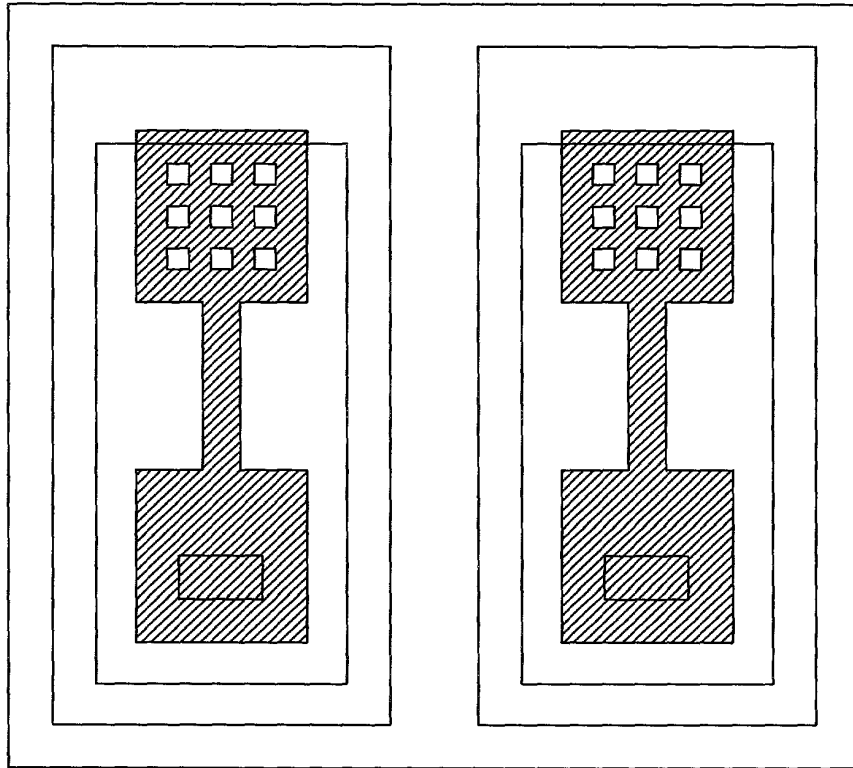
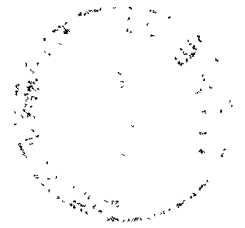


FIG. 76

2025-01-08 10:00:00

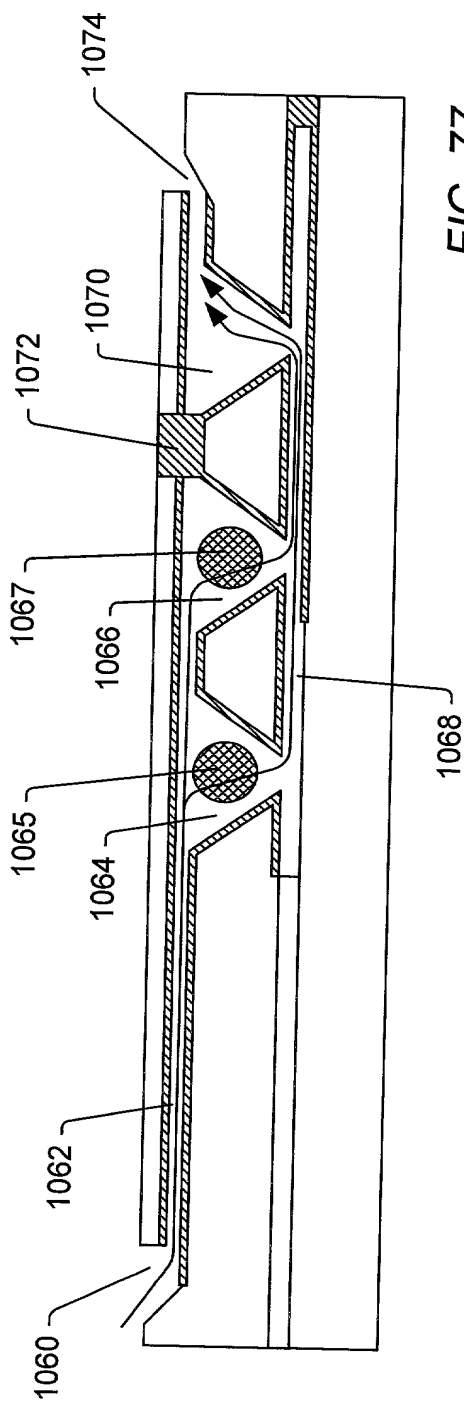


FIG. 77

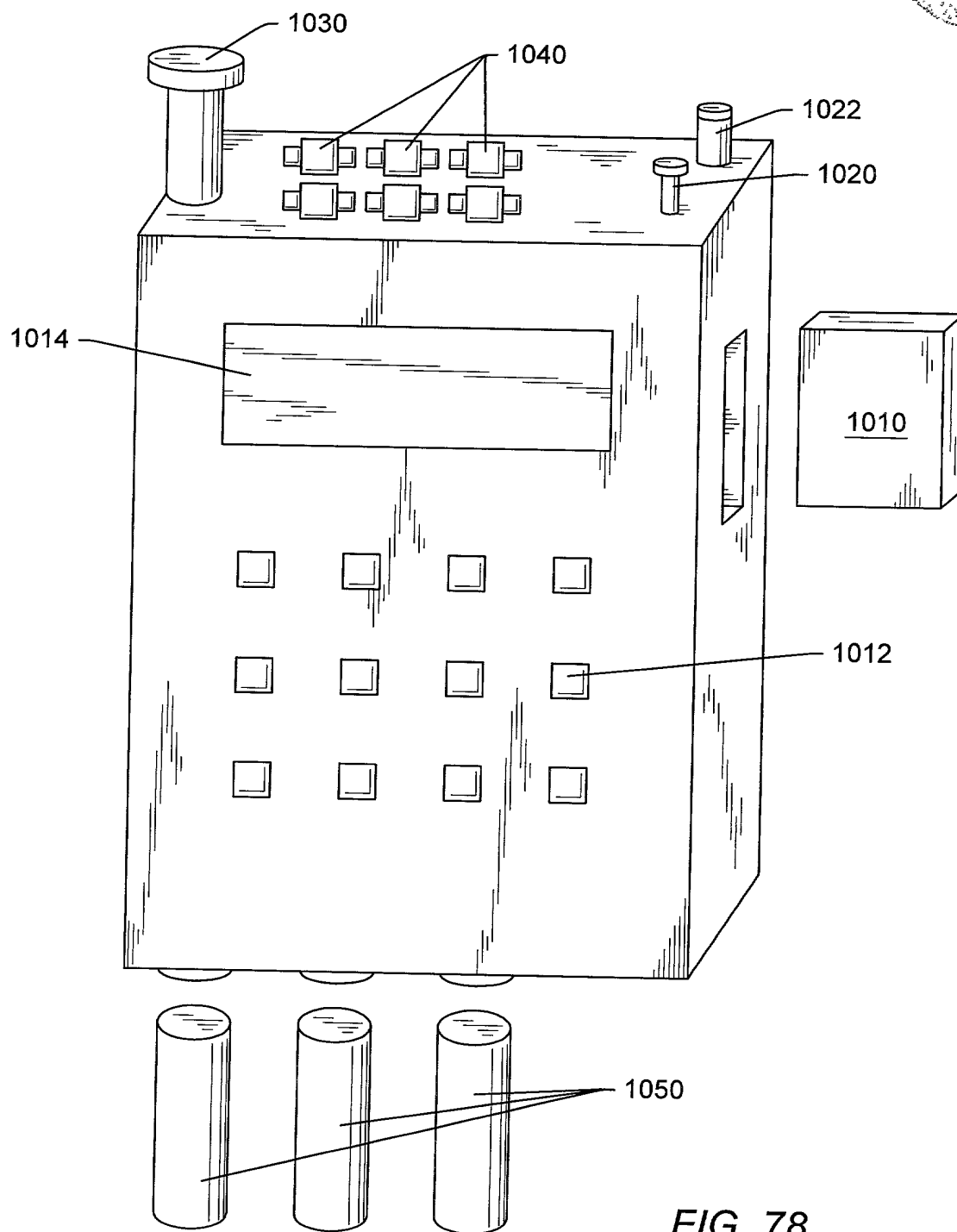


FIG. 78

2024-08-20 08:22:00

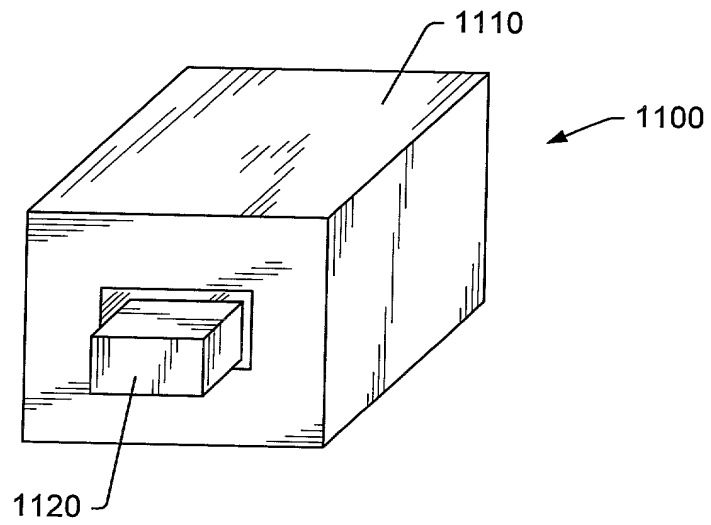


FIG. 79A

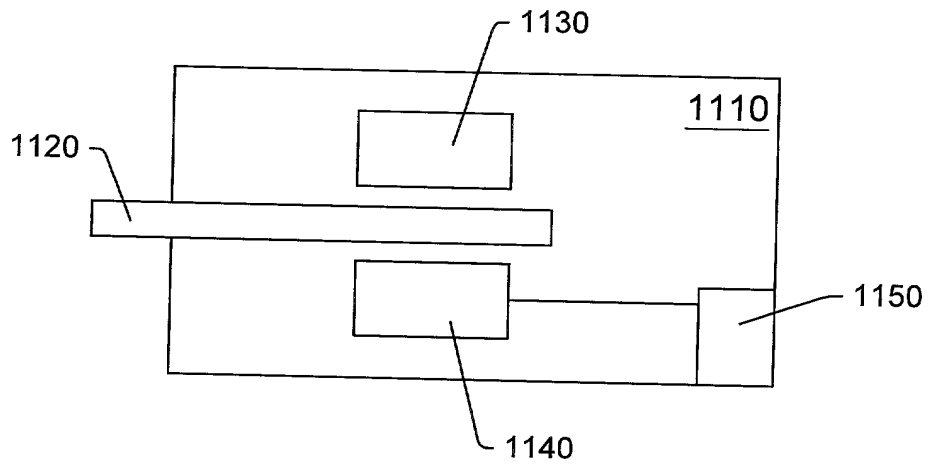
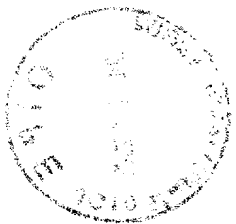


FIG. 79B

2007-07-09 00:00:00





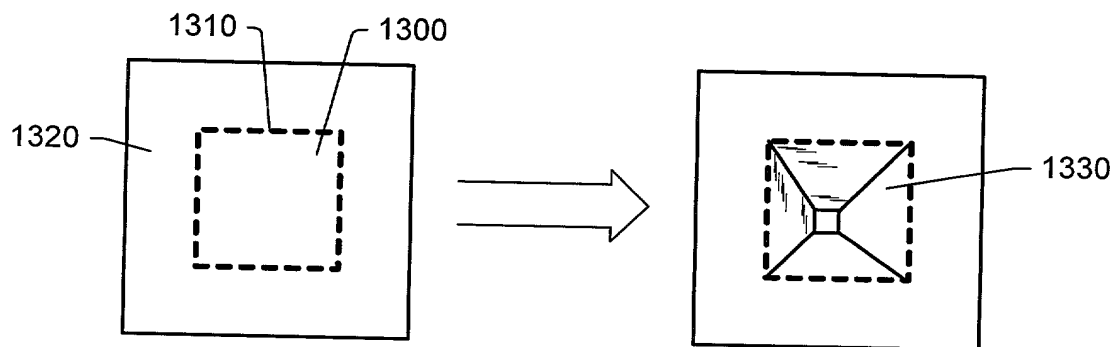


FIG. 82A

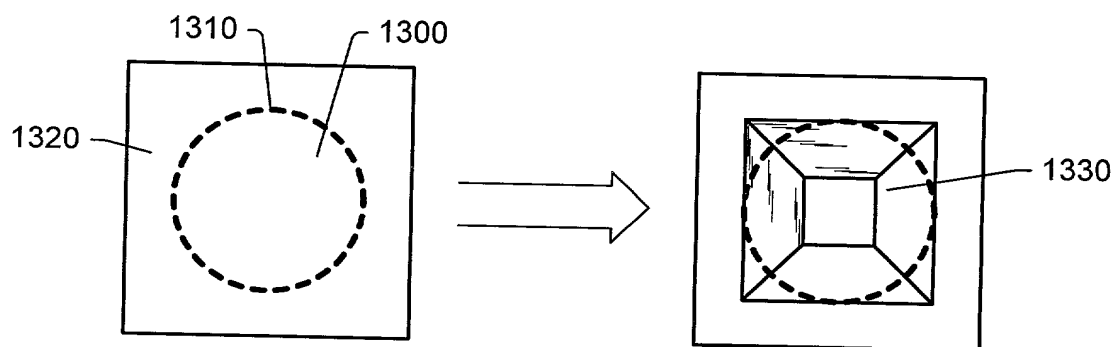
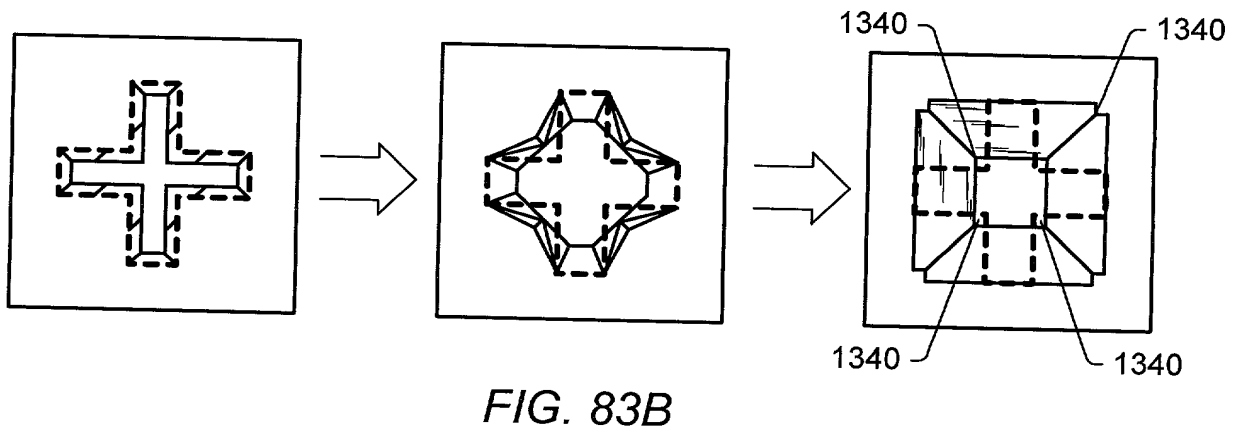
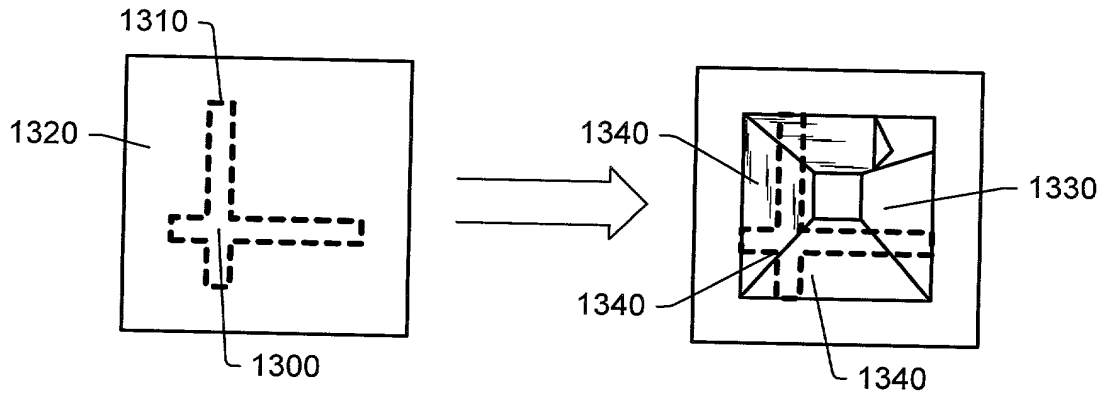
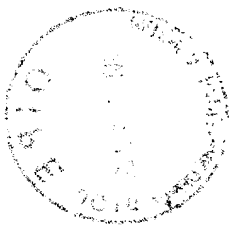


FIG. 82B





2007-01-08 00:00:00



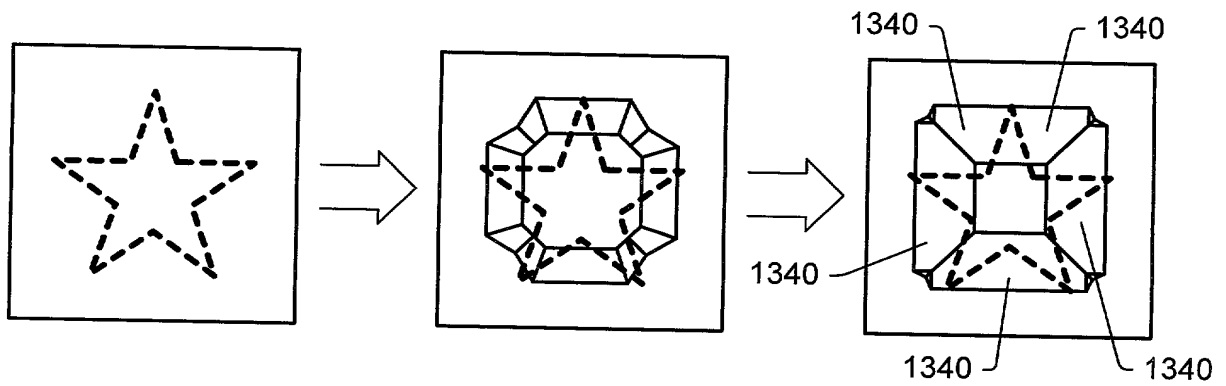


FIG. 84A

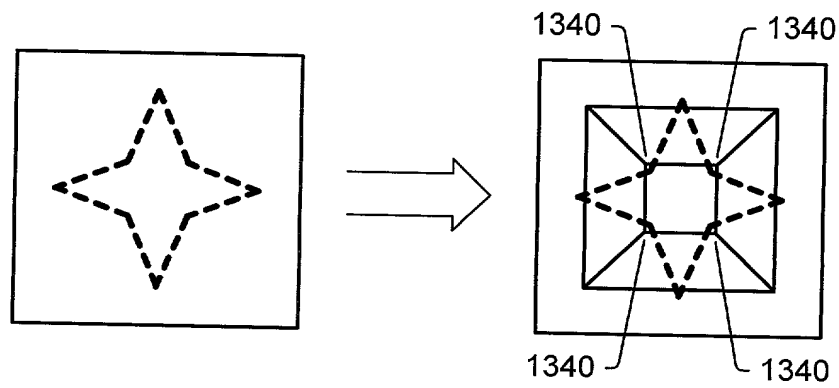


FIG. 84B

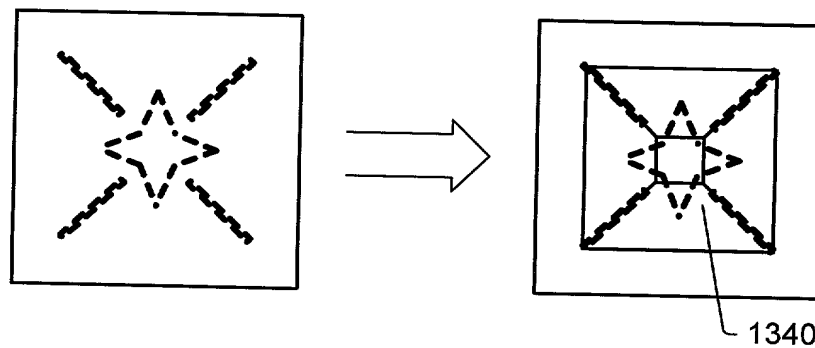
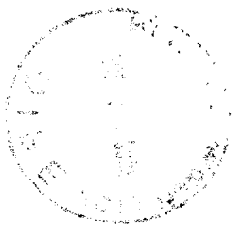


FIG. 84C

2025-08-08 10:00:00



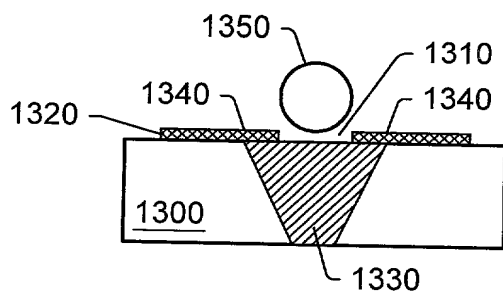


FIG. 85A

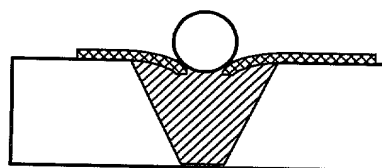


FIG. 85B

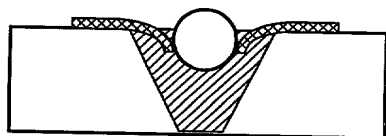


FIG. 85C

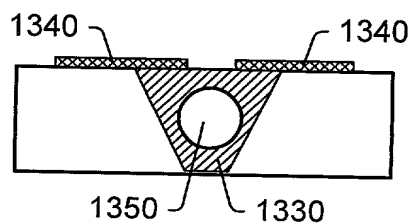
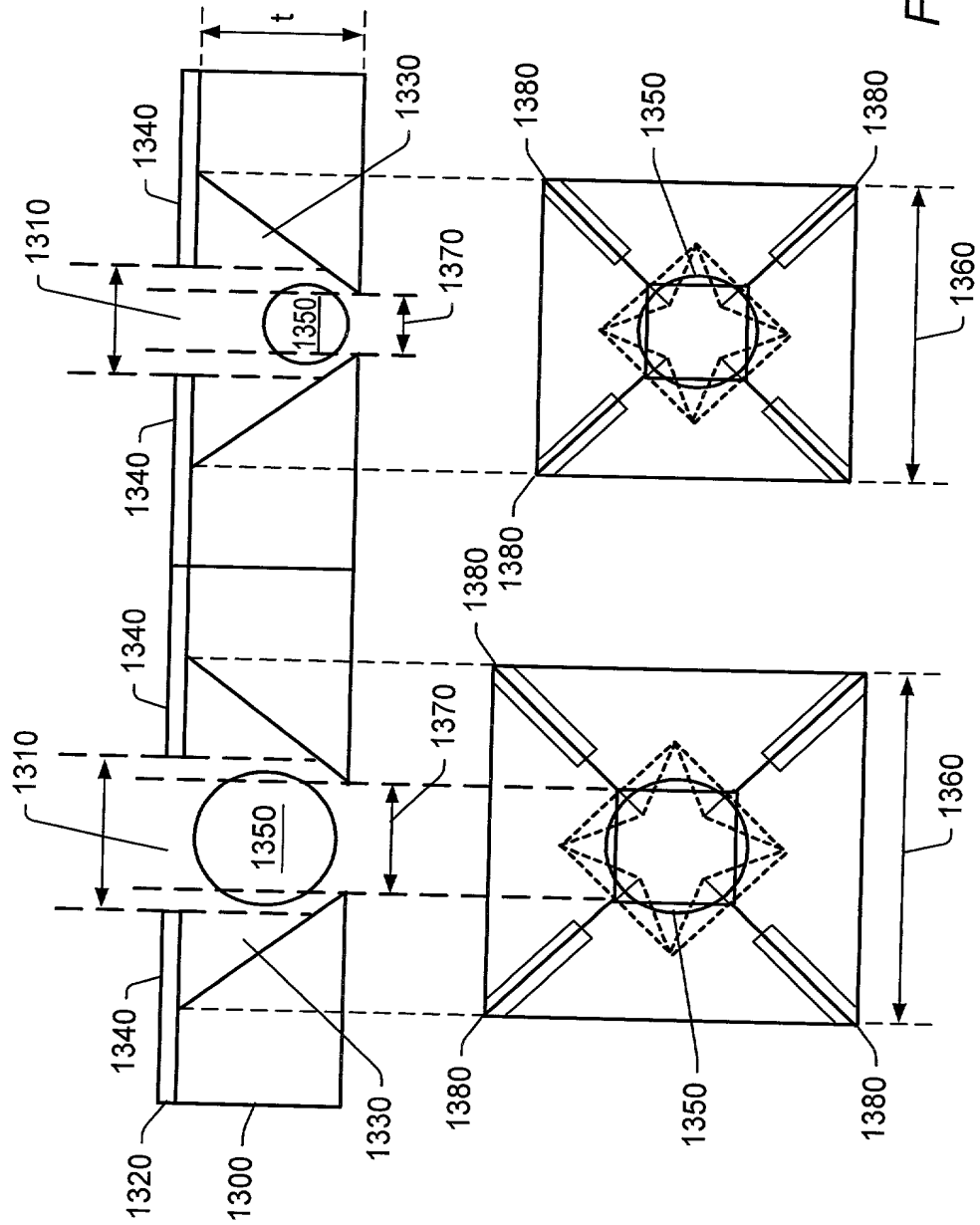


FIG. 85D

2007-09-08 22:00





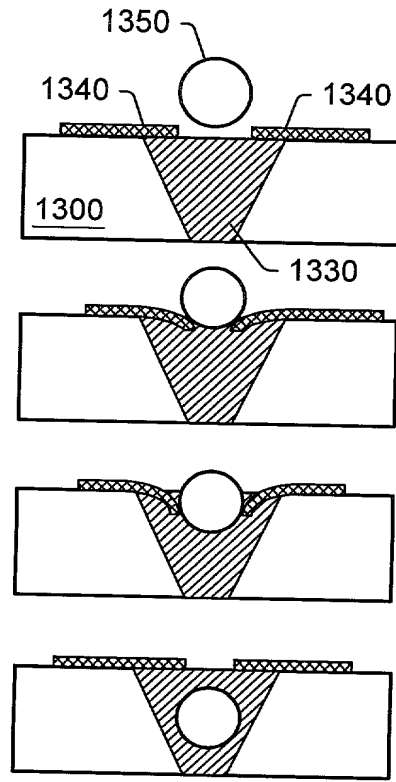


FIG. 87A

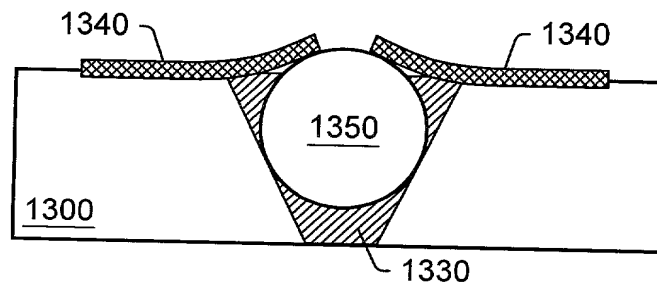


FIG. 87B

2025T/0" 0082/00T